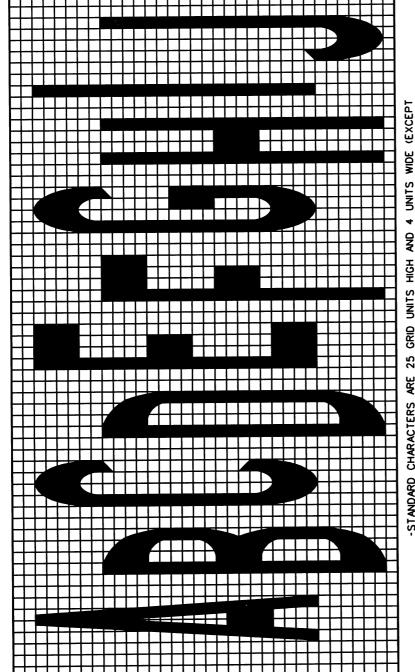


PAVEMENT MARKINGS

ENCLISH STANDARD DRAWING FOR



STANDARD CHARACTERS ARE 25 GRID UNITS HIGH AND 4 LETTER "!" AND THE NUMBER "!" WHICH ARE 1 UNIT WIDE:

ENGLISH STANDARD DRAWING FOR

PAVEMENT MARKINGS

VERTICAL STROKES ARE 1 UNIT WIDE, HORIZONTAL STROKES ARE

AS OTHERWISE BE 1 UNIT (MIN.) OR SHOULD . THE SPACE BETWEEN CHARACTERS SHOWN (OPTICAL SPACING MAY BE

ARE 8'-4". EXCEPT FOR THE 6' RAILROAD 10'-5" SCHOOL SYMBOL. STANDARD CHARACTER HEIGHTS 'R' SYMBOL AND THE TWO-LANE 16" (USE 4" FOR EACH GRID SQUARE) 8'-4" HIGH CHARACTERS THE WIDTH IS -FOR

20" (USE 5" FOR EACH GRID SQUARE) 10'-5" HIGH CHARACTERS THE WIDTH IS FOR 1205.08

SQUARE)

EACH

For

27/8"

(USE

11/2"

 $\bar{\mathbf{c}}$ WIDTH

표

CHARACTERS

HGH ō

-FOR

STANDARD ALPHABET AND SYMBOLS FOR HIGHWAY PAVEMENT MARKING (USDOT-FHWA)

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RALEIGH, N.C.

NORTH CAROLINA
DEPT. OF TRANSPORTATION
DIVISION OF HICHWAYS

STATE OF

HICHWAY PAVEMENT MARKING (USDOT-FHWA) RALEIGH, N.C. STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS STANDARD ALPHABET AND SYMBOLS FOR PAVEMENT MARKINGS

ENCLISH STANDARD DRAWING FOR

STANDARD ALPHABET AND SYMBOLS FOR HIGHWAY PAVEMENT MARKING (USDOT-FHWA)

ENGLISH STANDARD DRAWING FOR PAVEMENT MARKINGS

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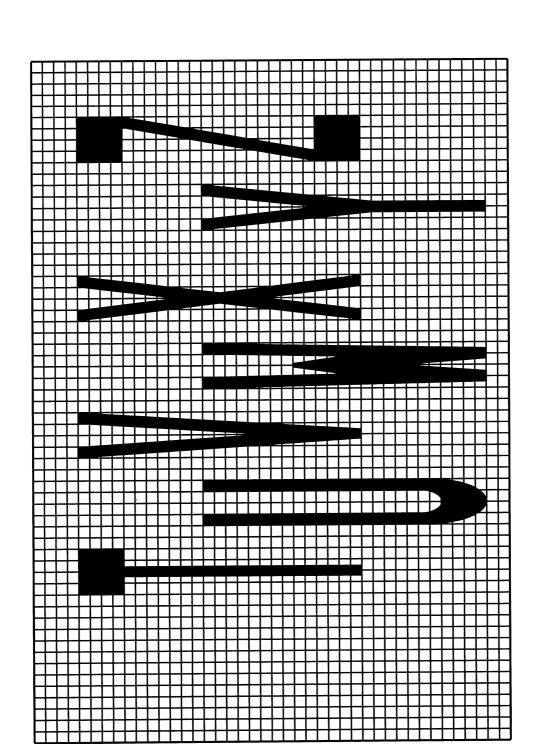
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STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

HICHWAY PAVEMENT MARKING (USDOT-FHWA) STANDARD ALPHABET AND SYMBOLS FOR

PAVEMENT MARKINGS ENCLISH STANDARD DRAWING FOR

STATE OF MORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HICHWAYS RALEIGH, N.C.



STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

ENGLISH STANDARD DRAWING FOR PAVEMENT MARKINGS

STANDARD ALPHABET AND SYMBOLS FOR HIGHWAY PAVEMENT MARKING (USDOT-FHWA)

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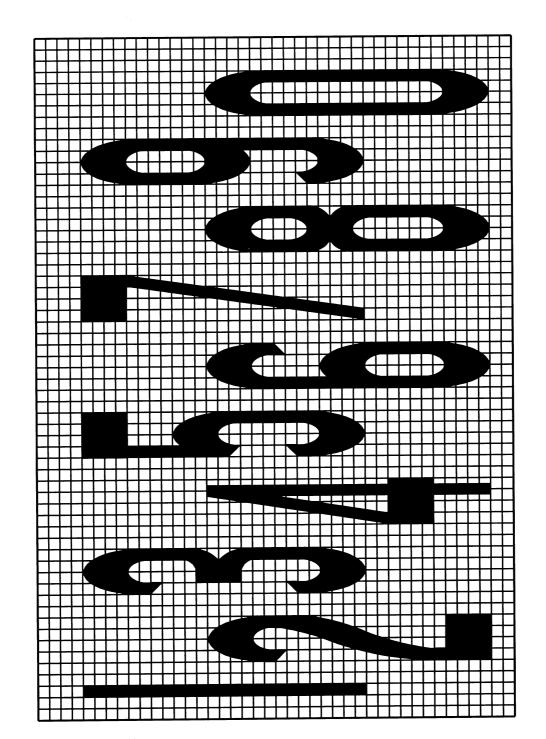
STATE OF MORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HICHWAYS RALEIGH, N.C. STANDARD ALPHABET AND SYMBOLS FOR

HICHWAY PAVEMENT MARKING (USDOT-FHWA) PAVEMENT MARKINGS ENCLISH STANDARD DRAWING FOR



08

2

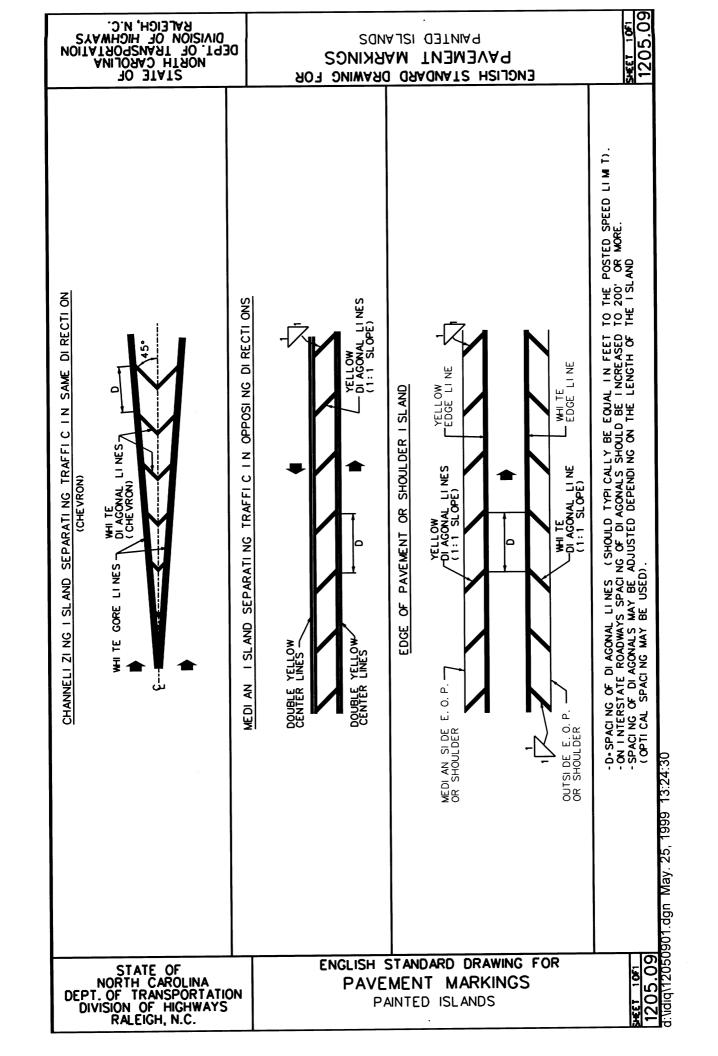


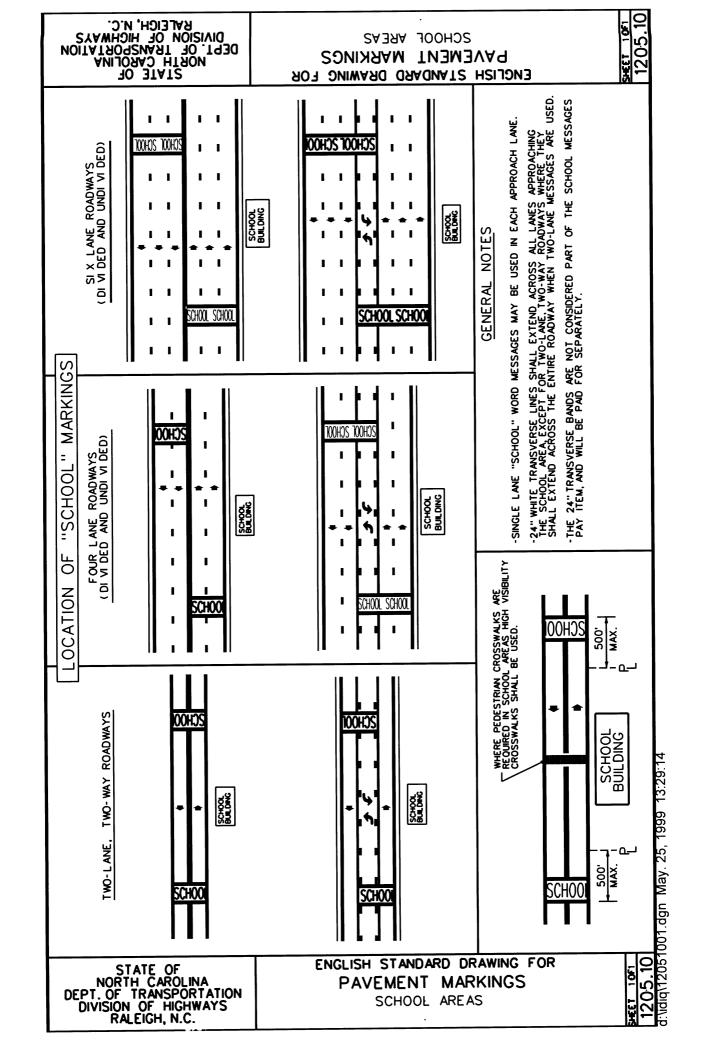
ENGLISH STANDARD DRAWING FOR

PAVEMENT MARKINGS

STANDARD ALPHABET AND SYMBOLS FOR HIGHWAY PAVEMENT MARKING (USDOT-FHWA)

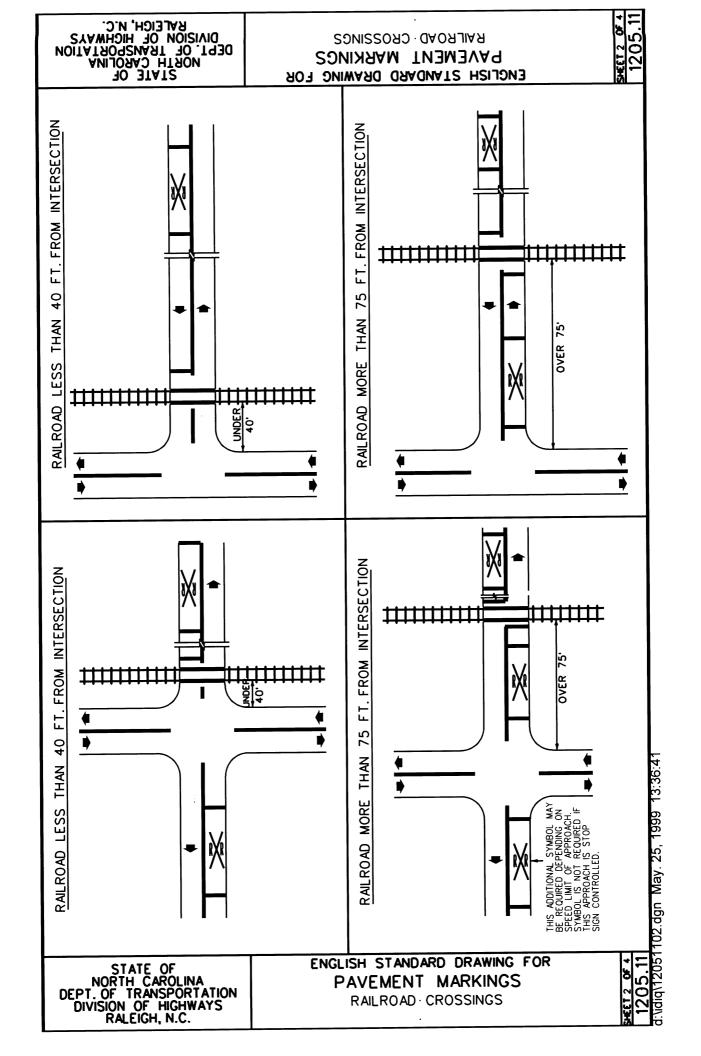
STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

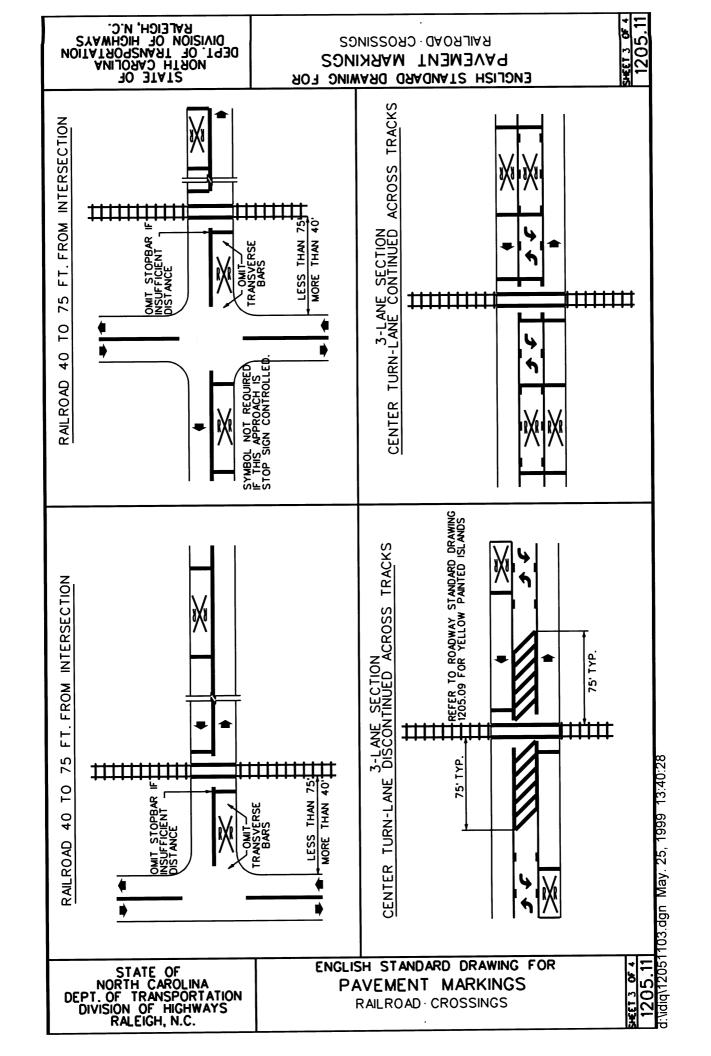


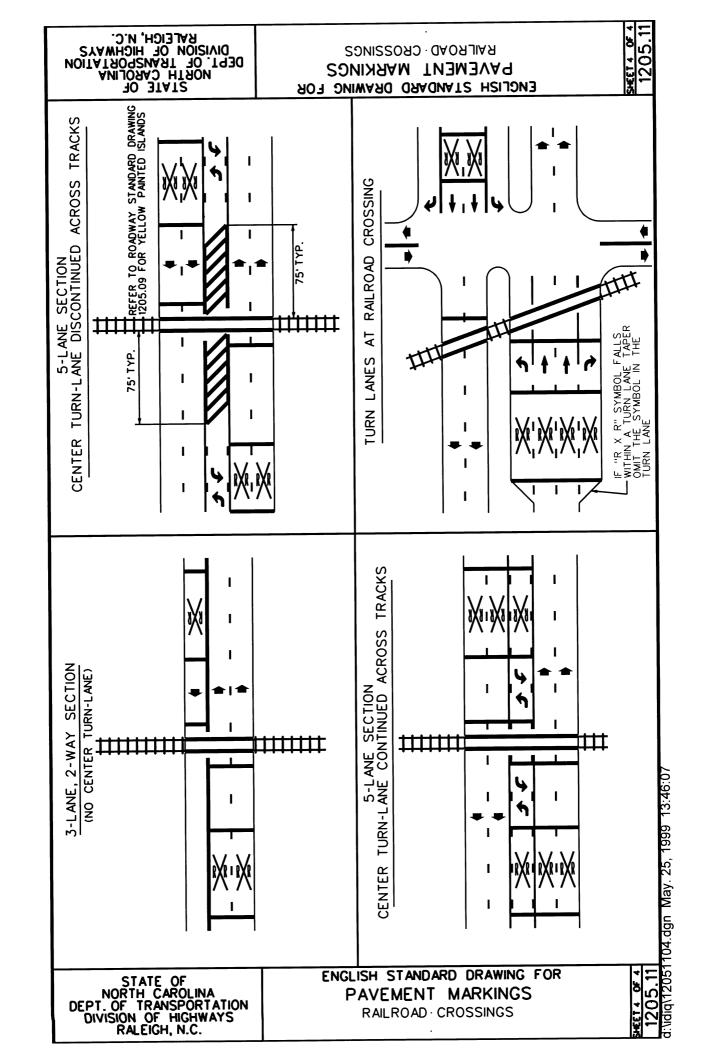


STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION OF HIGHWAYS RALEIGH, N.C. 1205.1 RAILROAD · CROSSINGS PAVEMENT MARKINGS ENCLISH STANDARD DRAWING FOR ON MULTILANE ROADS, THE TRANSVERSE BANDS SHALL EXTEND ACROSS ALL APPROACH LANES AND INDIVIDUAL "RXR" SYMBOLS SHALL BE USED IN EACH APPROACH LANE. THE 24 INCH TRANSVERSE BANDS ARE NOT CONSI DERED A PART OF THE "RXR" SYMBOL PAY ITEM. WHERE CENTER LINES OR EDGE LINES DO NOT EXIST, "RXR SYMBOL MARKINGS SHALL EXTEND 6 INCHES FROM THE EDGE OF PAVENENT TO 8 INCHES FROM THE CENTER ILINE OF THE RODDWAY OR THE MARKING SHALL BE POSITIONED TO ACCOMMODATE FUTURE PLACEMENT OF EDGELINE AND CENTER LINE PAVEMENT MARKINGS. REFER TO SIGNING PLANS OR STD. DWG. 1205.06-SHEET 3 FOR "D ADVANCE WARNING SIGN PLACEMENT DISTANCE. SYMBOL క ALL TRANSVERSE BANDS AND STOP BARS SHALL BE POSI TI ONED PERPENDI CULAR TO THE CENTERLI NE OF THE ROADWAY. REFER TO "MANUAL ON UNI FORM TRAFFI C CONTROL DEVI CES" SI GNI NG PLANS FOR ADDI TI ONAL WARNI NG SI GNS. FOR ROADWAYS LESS THAN 16 FEET IN W DTH, THE "RXR" SHALL BE CENTERED ACROSS THE ENTIRE ROADWAY. NOTES SENERAL ۵ -24" WHITE STOP BAR 15 FEET IN ADVANCE OF TRACKS WITHOUT SIGNALS OR GATES. SIGNALS WITHOUT GATES. GATES STOP BAR LOCATION P **ADVANCE** 4 1 PAVEMENT MARKING SYMBOL 6 8 FEET IN ADVANCE Z 8 FEET RAILROAD TRACKS DIRECTION OF TRAFFIC FLOW EGEND 24" WHITE STOP BAR ∄ A PORTION OF THE "RXR" PAVEMEN MARKING SHOULD BE DIRECTLY POPOSITE THE ADVANCE RALROAD WARNING SIGN (W10-1) YELLOW CENTER LINE : AT LEAST 10 FT. PAST SYMBOL (OR LONGER A MEET SIGHT DISTANCE I ENGLISH STANDARD DRAWING FOR STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C. 205.11 HEET 1 OF PAVEMENT MARKINGS RAILROAD · CROSSINGS

\idiq\12051101.dgn May. 25, 1999







SPACIN(MARKER	EMENT
WING FOR	ARO ORACK	AT2 HZIJ

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HICHWAYS RALEIGH, N.C.

CHART

SPACING

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MARKE

AVEMEN

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NOTE GENERAL

STATE OF NORTH CAROLINA DEPT. OF TRANSPORTATION DIVISION OF HIGHWAYS RALEIGH, N.C.

MARKERS ARE GENERALLY NOT REQUIRED ALONG EDGE LINES, EXCEPI IF DESIGNATED IN THE PLANS, OR DIRECTED BY THE ENGINEER. WHEN THEY ARE REQUIRED, THEY SHALL BE SPACED ON 20 FT. CENTERS, AND OFFSET 2 INCHES FROM THE EDGE LINE ON THE TRAFFIC SIDE.

BE CRYSTAL/RED MARKERS SHOULD BE PLACED AT INTERSECTIONS AND INTERCHANGES WHERE WRONG-WAY MOVEMENTS ARE POSSIBLE. THE RED SIDE OF THE MARKER SHALL BE POSITIONED TO FACE "WRONG-WAY" TRAFFIC. WHEN USED, CRYSTAL/RED MARKERS SHOULD PLACED ALONG THE ENTIRE LENGTH OF THE PROJECT.

AS SHOWN ON THE SPACING ALONG THRU LANES SHOULD BE REDUCED AS SHOWN ON THE SPACING CHART WHERE EXCESSIVE AMBIENT LIGHT FROM HIGHWAY ILLUMINATION SYSTEMS, OR OTHER FIXED SOURCES COULD REDUCE THEIR EFFECTIVENESS (0.8 FT.-CANDLES OR GREATER ON ANY 1000 FT. SECTION OF ROADWAY).

PAVEMENT MARKERS SHOULD NOT BE PLACED CLOSER THAN 2 INCHES TO A PAVEMENT CONSTRUCTION JOINT (AS FEASIBLE), EXCEPT WHEN PLACED BETWEEN DOUBLE YELLOW CENTER LINES, AND ALONG YELLOW SKIP LINES ON TWO-LANE, TWO-WAY ROADWAYS WHERE PASSING IS ALLOWED IN BOTH DIRECTIONS. ENGLISH STANDARD DRAWING FOR

PAVEMENT MARKER SPACING

ON PAVEMENT PLACED DIRECTLY BE PAVEMENT MARKERS SHALL NOT MARKING LINES. -PAVEMENT MARKERS USED IN CONJUNCTION WITH DOUBLE YELLOW CENTER LINES SHALL BE PLACED MID-WAY BETWEEN THE LINES, PROVIDED WITH A GAP BETWEEN THE LINES AND THE MARKER TO REDUCE OVERSPRAYING THE MARKER DURING REPAINTING OPERATIONS.

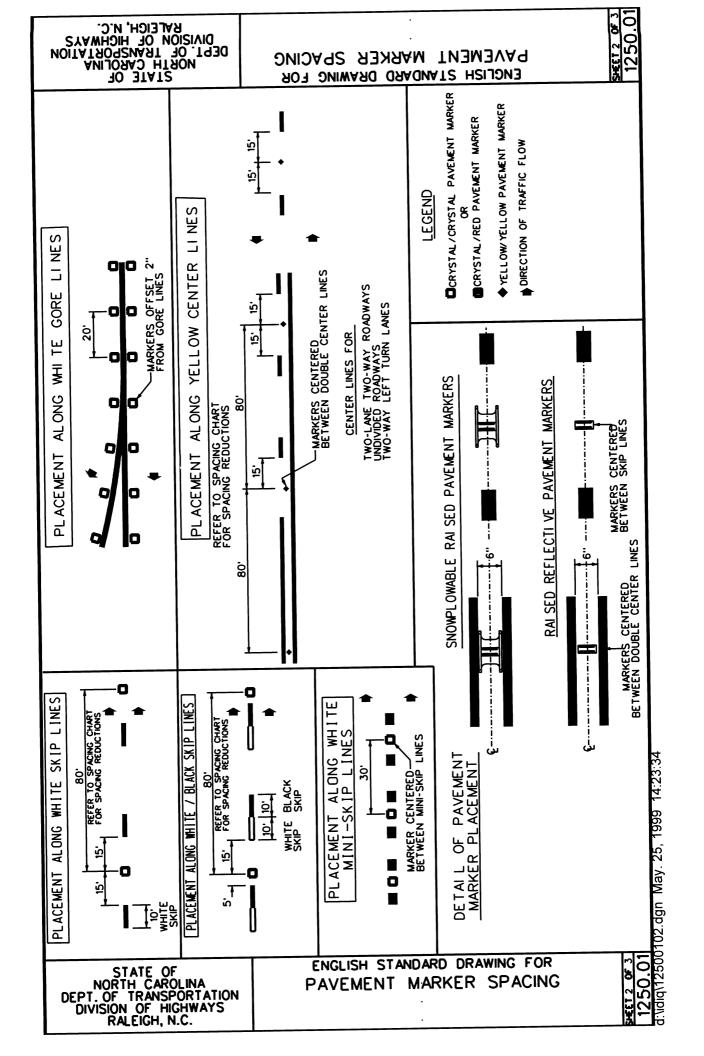
IN TAPERS. ALONG MINI-SKIP LINES REQUIRED NOT ARE

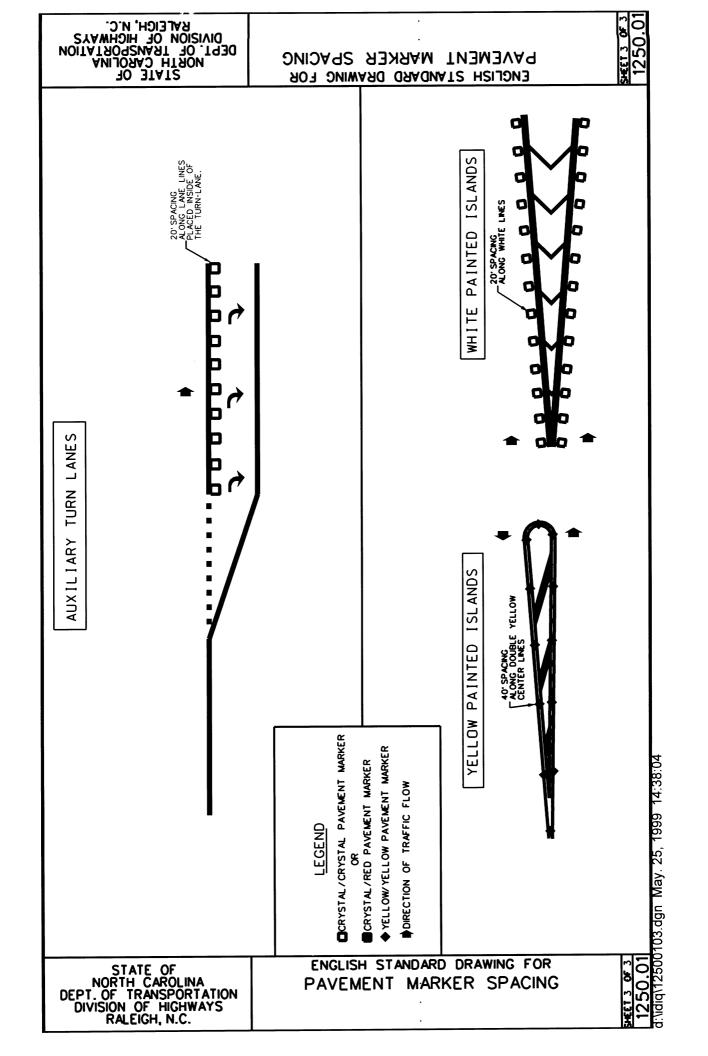
	CINING SO SON TANGENT MARKING	TYPICAL SPA	SPACING (FT)
	TIPE OF TAVEMENT MANAGED	SPEED LIMIT	SPEED LIMIT
	SKIP LINES AND CENTER LINES ALONG THRU LANES	> 45 M.P.H.	45 M.P.H. OR AMBIENT LIGHT
	ALONG TANGENT SECTIONS AND HORIZONTAL CURVES LESS THAN 6°	80	40
	HORIZONT AL CURVES_> 6"	40	40
	TURN-LANES - SKIP LINES	4 (40
	S	7 4	04
		ĸ	30
Lil	TWO-WAY RAMP CENTER LINES	4	40
	GORE LINES	2	20
	PAINTED ISLANDS - WHITE YELLOW	0.4	20 40
	RAISED MEDIAN ISLANDS	4	40
	WRONG WAY RAMP ARROW		2
	TAPERS		40
	NARROW BRIDGES - EDGE LINE CENTER LINE		20 40
	ONE LANE BRIDGES- EDGE LINE		20
	WORK ZONE	APPLICATIONS	SN
	2-LANE, 2-WAY BYPASS DIVERSIONS	20 FT. FOR CENTER LINE	CENTER LINE
	ALL OTHER DIVERSIONS	1/2 NORMAL	NORMAL SPACING

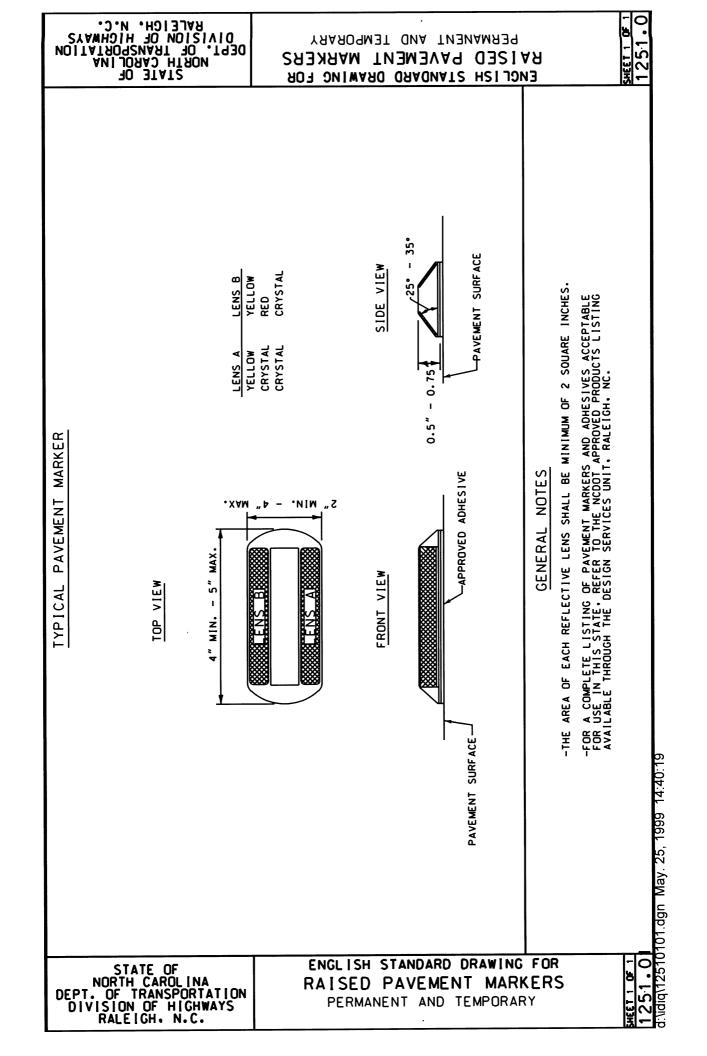
May. 25, 1999

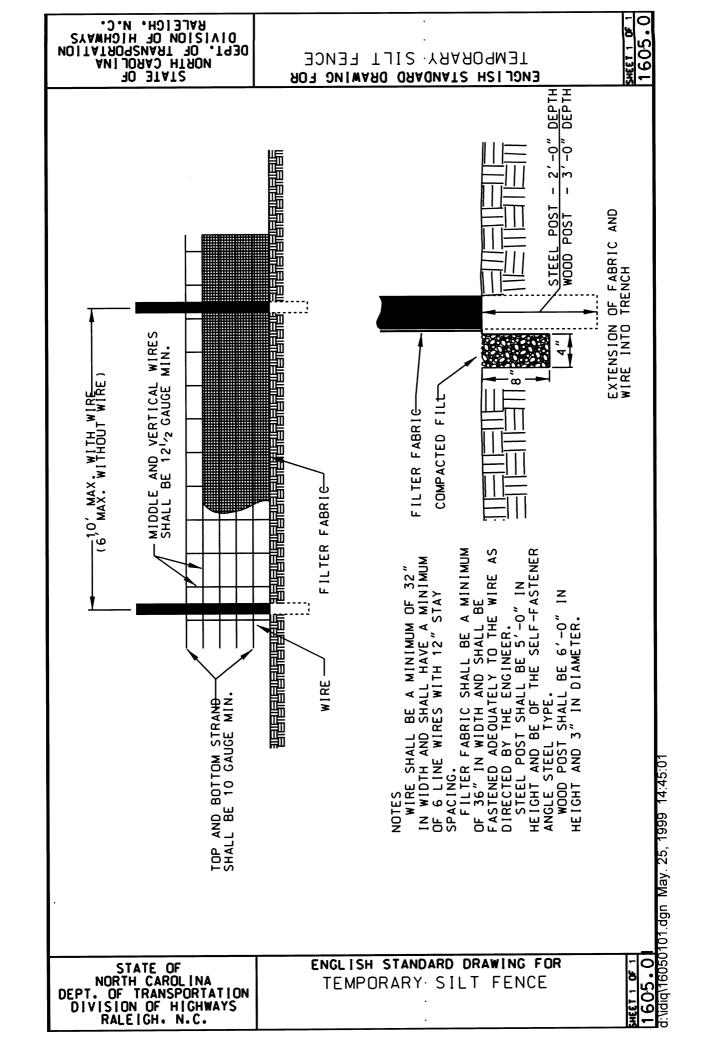
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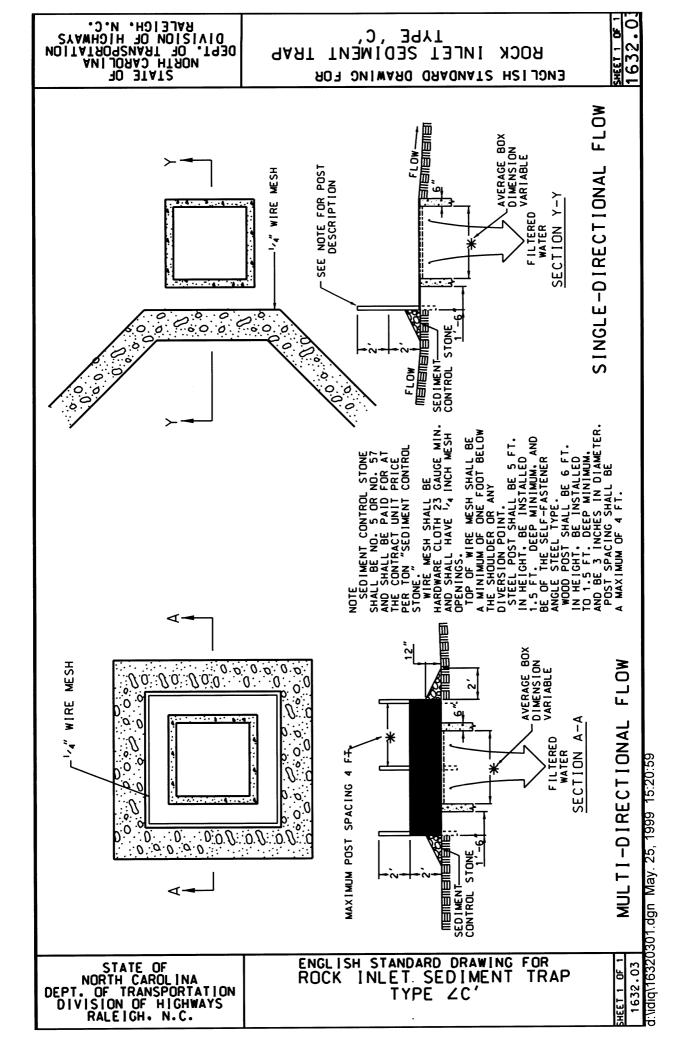
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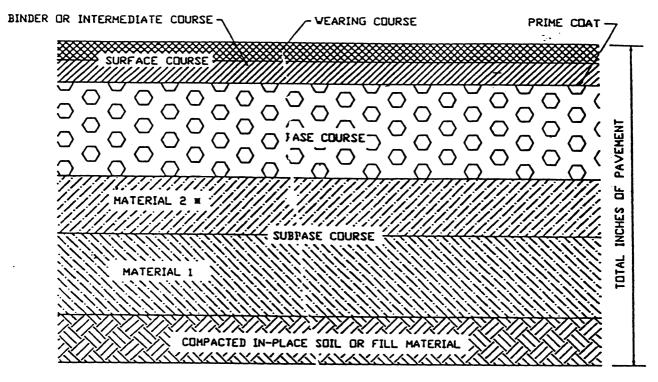












* MATERIAL 2 IS OF A HIGHER QUALITY THAN MATERIAL 1.

PRIME COAT

PAVEMENT COMBINATION OF SUBBASE, BASE AND SURFACE CONSTRUCTED ON SUBGRADE

SURFACE COURSE

A HOT MIXED BITUMINOUS CONCRETE DESIGNED AS A STRUCTURAL MEMBER
VITH VEATHER AND ABRASION RESISTING PROPERTIES. MAY CONSIST OF

VEARING AND INTERMEDIATE COURSES.

APPLICATION OF A LOV VISCOSITY LIQUID BITUMEN TO THE SURFACE OF THE

BASE COURSE. THE PRIME PENETRATES INTO THE BASE AND HELPS BIND IT

TO THE OVERLYING BITUMINOUS COURSE.

SEAL COAT A THIN BITUMINOUS SURFACE TREATMENT CONTAINING AGGREGATE USED TO

VATERPROOF AND IMPROVE THE TEXTURE OF THE SURFACE COURSE.

COMPACTED SUBGRADE UPPER PART OF THE SUBGRADE WHICH IS COMPACTED TO A DENSITY

GREATER THAN THE SOIL BELOW.

TACK COAT A LIGHT APPLICATION OF LIQUID OR EMULSIFIED BITUMEN, ON AN

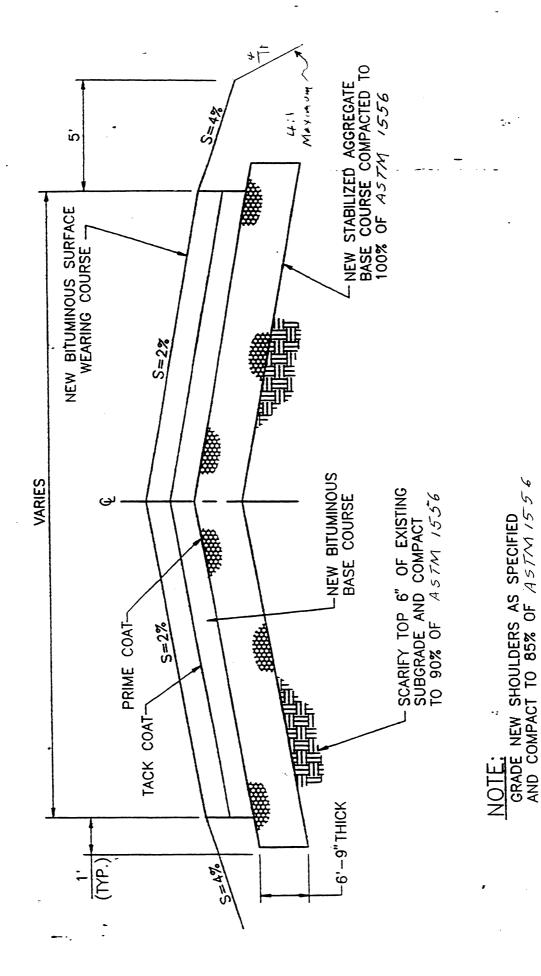
EXISTING PAVED SURFACE TO PROVIDE A BOND WITH THE SUPER-

IMPOSED BITUMINOUS COURSE.

SUBGRADE NATURAL IN-PLACE SOIL OR FILL MATERIAL.

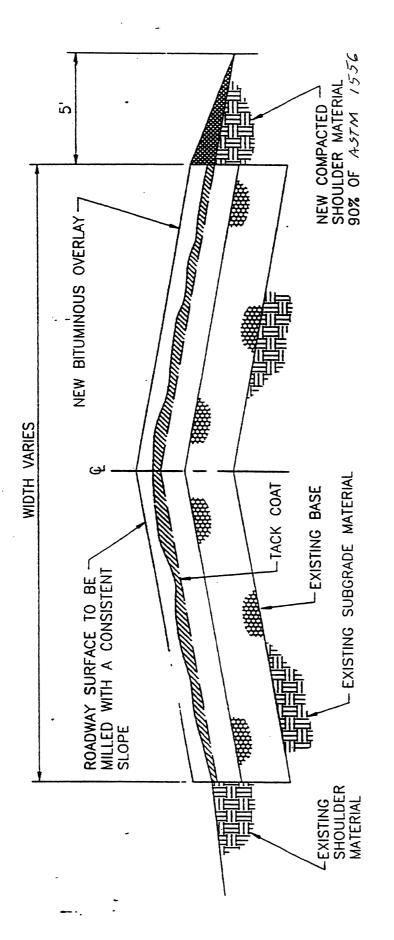
REFERENCE: NAVY DM 21.3; ARMY TM 5-825-2; AIR FORCE AFM 88-6, CHAPTER 2, FLEXIBLE PAVEMENT DESIGN FOR AIRFIELDS

TYPICAL FLEXIBLE PAVEMENT STRUCTURE	DATE	ن آچ ا
AND TERMINOLOGY	AUG 1978	



NEWLY CONSTRUCTED ASPHALT ROADWAY X-SECTION

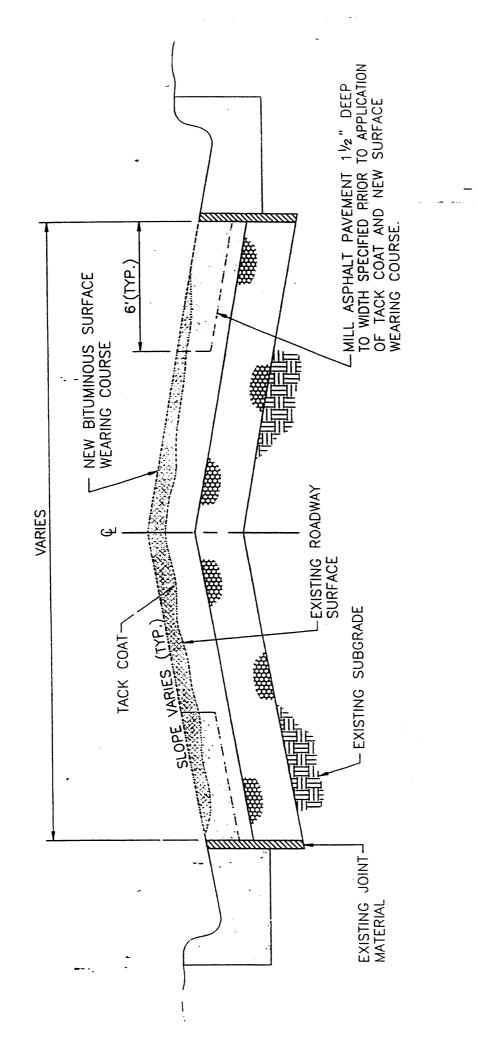
NOT TO SCALE Revised in accordance with amendment No. 0002



NOTE: GRADE SHOULDER MATERIAL TO LEVEL OF MILLED ASPHALT SURFACE PRIOR TO APPLICATION OF ASPHALT OVERLAY.

OVERLAY X—SECTION (MILLED SURFACE & NO CURB)

NOT TO SCALE Revised in accordance with amendment No. 0002

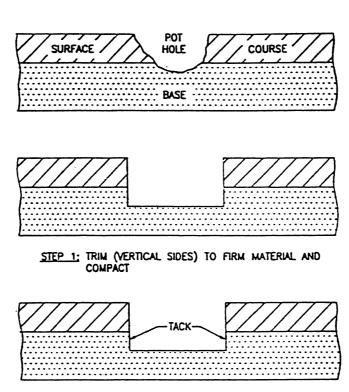


THICKNESS OF OVERLAY SPECIFIED BY EXISTING FIELD CONDITIONS WILL BE MEASURED AT THE © OF THE ROADWAY.

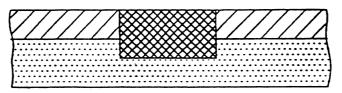
LED SECTION, CURB & NO GEOTEXTILE) OVERLAY OF ROADWAY (MIL

NOT TO SCALE

REPAIR OF POTHOLES



STEP 2: TACK COAT SIDES OF PATCH



STEP 3: PLACE HOT ASPHALT MIX IN LAYERS NOT TO EXCEED 3 IN; COMPACT AND LEVEL TO SPECIFIED GRADE AND DENSITY

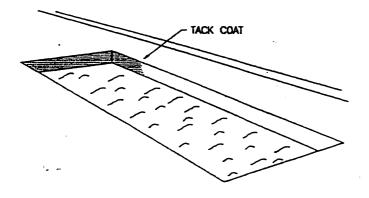
REFERENCE: THE ASPHA'. I INSTITUTE MANUAL SERIES MS- 16 ASPHALT IN PAVEMENT

MAINTENANCE

REPAIR OF FLEXIBLE PAVEMENTS (POTHOLES)

DATE JAN 1987 150 150 P

DEEP PATCH REPAIR

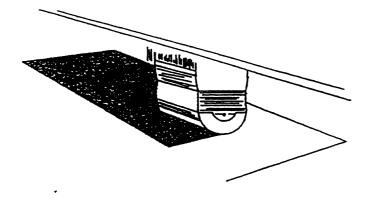


REMOVE SURF, 'E AND BASE AS NECESTARY TO FIRM MATERIAL , ND COMPACT.

CUT STRAIGHT & VERTICAL FACES (PAVEMENT SAW)

APPY TACK COAT VERTICAL FACES

HOT ASPHALT MIX PLACED
DIRECTLY ON SUBGRADE
NEEDS NO PRIME; PLACE
IN LAYERS NOT TO EXCEED 3 IN.



BACKFILL AND COMPACT USING HOT ASPHALT MIX

VIBRATORY PLATE COM-PACTOR (SM PATCHES)

ROLLER COMPACTOR (LARGE PATCHES)

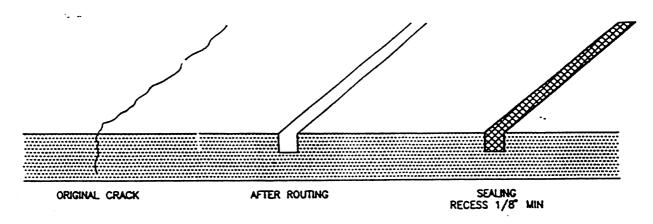
COMPACT TO SAME GRADE AS SURROUNDING PAVEMENT AND MEET DENSITY REQUIREMENTS

REFERENCE: THE ASPHALT INSTITUTE MANUAL SERIES MS-16 ASPHALT IN PAVEMENT MAINTENANCE

REPAIR OF FLEXIBLE PAVEMENTS (DEEP PATH)

DATE JAN 1987

CRACK REPAIR

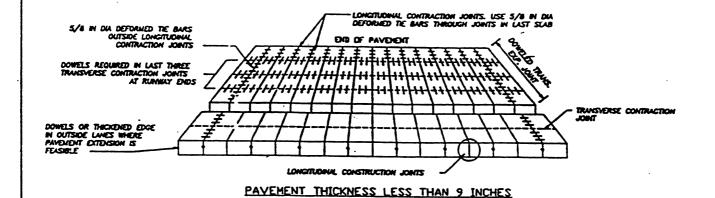


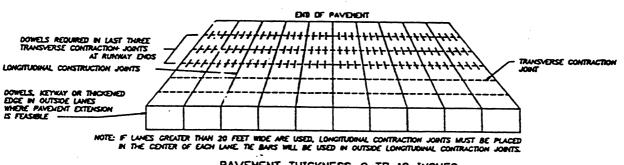
THE VARIABLE WIDTH AND AMOUNT OF SPALLING FOUND IN CRACKS NECESSITATES DIFFERENT PROCEDURES FOR REPAIR

REFERENCE: TM5-822-9/AFM 88-6, CHAPTER 10, REPAIR OF RIGID PAVEMENTS USING EPOXY RESIN GROUTS, MORTARS AND CONCRETE

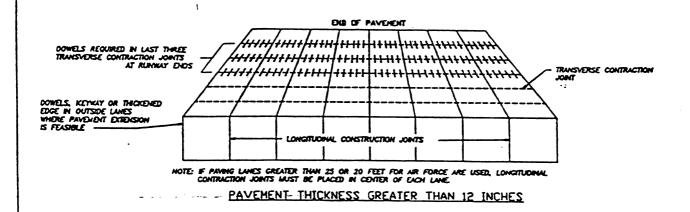
REPAIR OF CONCRETE PAVEMENTS (CRACK)

DATE JAN 1978





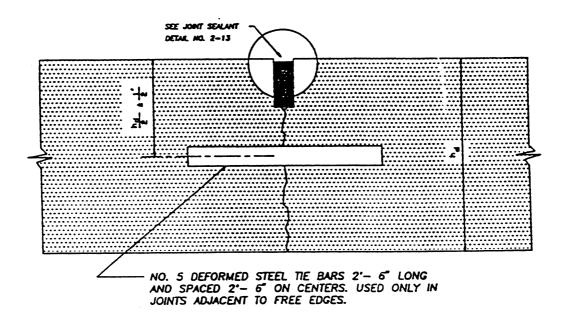




REFERENCE: TM 5-825-3/4F4 88-6, CHAPTER 3, RIGID PAVEMENTS FOR AIRFIELDS

TYPICAL JOINTING - PLAIN CONCRETE PAVEMENT DATE AUG 1988

LONGITUDINAL

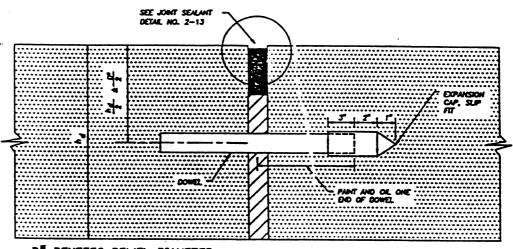


REFERENCE: TN 5-825-3/AFM 88-6, CHAPTER 3, RIGID PAVEMENTS FOR AIRFIELDS

CONTRACTION JOINT (LONGITUDINAL) FOR PLAIN CONCRETE PAVEMENTS

DATE AUG 1988

TRANSVEF SE



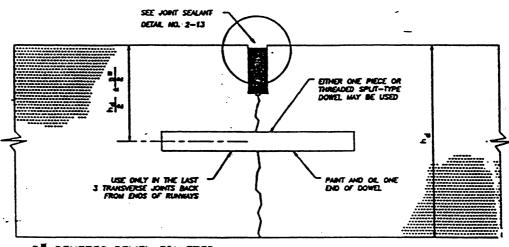
DM DENOTES DOVEL DIAMETER

PAVEHENT THICKNESS IN.	MINIMUM DOVEL LENGTH IN.	MAXIMUM DOVEL SPACING IN.	DOVEL DIAMETER AND TYPE
<8 :	16	12	3/4-IN BAR
8 TO 11.5	16	12	1-IN. BAR
12 TO 15.5	20	15	1-TO 1-1/4-IN. BAR. OR 1-IN. EXTRA-STRENGTH PIPE
16 TO 20.5	20	18	1-TO 1-1/2-IN. BAR. OR 1- TO 2-1/2-IN. EXTRA-STRENGTH PIPE
21 TO 25.5	24	18	2-INCH BAR, OR 2-INCH EXTRA STRENGTH PIPE
>26	30	18	3-INCH BAR, OR 3-INCH EXTRA

REFERENCE IM 5-825-3/AFM 88-6, CHAPTER 3, RIGID PAVEMENTS FOR AIRFIELDS

EXPANSION JOINT (TRANSVERSE) FOR PLAIN CONCRETE PAVEMENTS	-	DATE AUG 1988	१ (८) व्यक्त २ ४५
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TRANSVERSE



D* DENGTES DOVEL DIAMETER

PAVEMENT	THICKNESS, INCHES	SPACING,FEET
LESS	THAN 9	12-1/2 TO 15
9 TO	12	15 TO 20
□∨ER	12 ^m	20 TO 25

20-FOOT MAXIMUM SPACING FOR AIR FORCE PAVEMENTS.

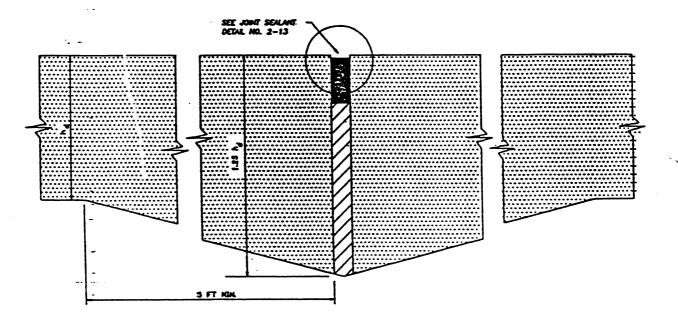
PAVEMENT THICKNESS IN.	MINIMUM DOVEL LENGTH IN	MAXIMUM DOVEL SPACING IN.	DOVEL DIAMETER AND TYPE
<8	16	, 15	3/4-IN. BAR
8 TO 11.5	16	12	1-IN. BAR
12 TO 15.5	50	15	1-TO 1-1/4-IN. BAR. OR 1-IN. EXTRA-STRENGTH PIPE
16 TO 20.5	20	18	1-TO 1-1/2-IN. BAR. OR 1- TO 1-1/2-IN. EXTRA-STRENGTH PIPE
21 TO 25.5	24	18	2-INCH BAR, OR 2-INCH EXTRA
>56	30	18	3-INCH BAR, OR 3-INCH EXTRA STRENGTH PIPE

REFERENCE: TM 5-825-3/AFM 88-6, CHAPTER 3, RIGID PAVEMENTS FOR AIRFIELDS

CONTRACTIO	TNIOL N	(TRANS)	(ERSE)	FOR
PLAIN	CONCRET	E PAVE	MENTS	

, e.,

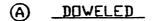
LONGITUDINAL OR TRANSVERSE

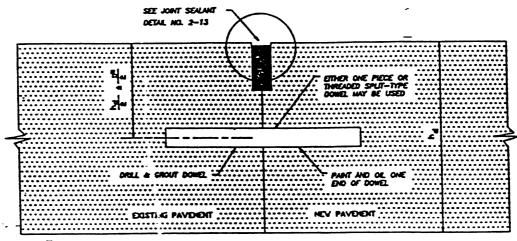


REFERENCE: TM 5-825-3/AFM 88-6, CHAPTER 3, RIGID PAVEMENTS FOR AIRFIELDS

EXPANSION JOINT (LONGITUDINAL) FOR PLAIN CONCRETE PAVEMENTS

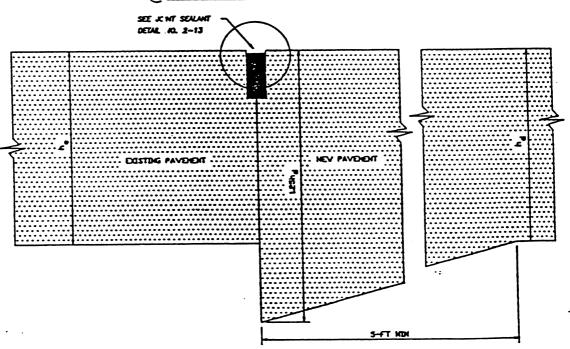
DATE AUG 1988





DM DENOTES DOVEL DIAMETER

(E) THICKENED EDGE *



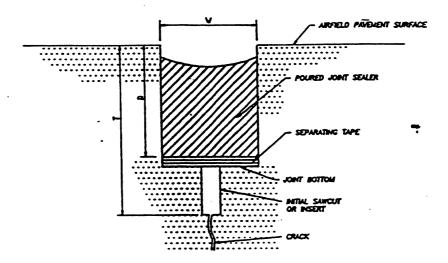
NOTE + THIS TYPE JOINT SHOULD BE USED ONLY WHEN EXISTING PAVEMENT IS TO BE REPLACED IN A SHORT PERIOD OF TIME, SINCE WITHOUT LOAD TRANSFER IT WILL DETERIORATE QUICKLY I

REFERENCE: TM 5-825-3/AFM 88-6, CHAPTER 3, RIGID PAVEMENTS FOR AIRFIELDS

CONSTRUCTION JOINTS (DOWELED AND THICKENED EDGE)
BETWEEN NEW AND EXISTING FLAIN CONCRETE PAVEMENTS

DATE AUG 1988

SEPARATING TAPE



W = WIDTH OF SEALANT RESERVOIR (SEE TABLE)

D = DEPTH OF SEALANT (LO TO 1.5 x V)

T = DEPTH OF INITIAL SAVCUT

Q. 1/4 SLAB THICKNESS FOR PAVEMENTS LESS THAN 12 INCHES

b. 3 INCHES FOR PAVEMENTS 12-18 INCHES #

C. 1/6 SLAB THICKNESS FOR PAVENENTS MORE THAN 18 INCHES #

* DESIGNER MAY WANT TO CONSIDER REQUIRING 1/4 SLAB THICKNESS

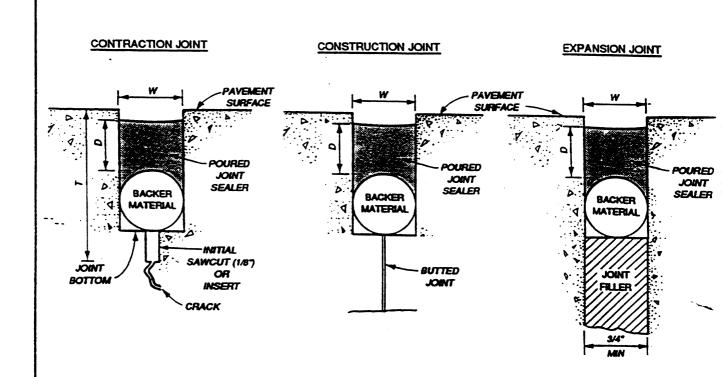
TABLE

JOINT SPACING		
FT.	HIN	MAX
< 25	1/2	5/8
25-50		7/8
> 50	1.0	1-1/8

- NOTES: 1. SEPARATING TAPE OR NONABSORBENT TAPE REQUIRED TO PREVENT JOINT SEALANT FROM FLOVING INTO SAVOUT, TO SEPARATE NONCOMPATABLE MATERIALS AND TO PREVENT JOINT SEALANTS FROM BONDING TO BOTTOM OF RESERVOIR.
 - 2. TOP OF SEALANT VILL BE 1/8-IN. TO 1/4-IN. BELOV TOP OF PAVEMENT.
 - 3. COMPRESSION SEAL MUST BE IN COMPRESSION AT ALL TIMES.

REFERENCE I TH 5-825-3/AFH 88-6, CHAPTER 3, RIGID PAVEMENTS FOR AIRFIELDS

JOINT SEALANT DETAILS FOR AIRFIELD PAVEMENTS DATE **AUG 1988** (SEPARATING TAPE)



W - WIDTH OF SEALANT RESERVOIR (SEE TABLE)

- D DEPTH OF SEALANT (1.0 TO 1.5 X W)
- T = DEPTH OF INITIAL SAWCUT OR INSERT TYPE JOINT FORMER (CONTRACTION JOINT)
 - 2. 1/4 SLAB THICKNESS FOR PAVEMENTS LESS THAN 12 INCHES
 - b. 3 INCHES FOR PAVEMENTS 12-18 INCHES*
 - c. 1/6 SLAB THICKNESS FOR PAVEMENTS MORE THAN 18 INCHES

TABLE

JOINT SPACING	WIDTH, IN	
FT	MIN	MAX
< 25	1/2	5/8
25 - 50	3/4	7 <i>1</i> 8
>50	1.0	1-1/8

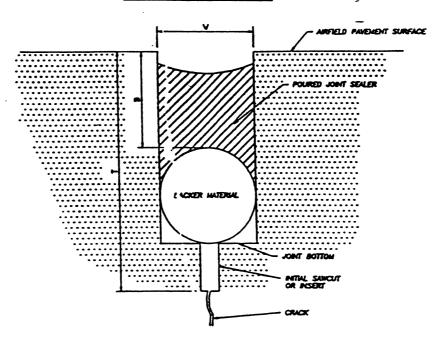
NOTE. SOME SINGLE COMPONENT COLD APPLIED SEALANTS REQUIRE A SHAPE FACTOR (D/W) OF LESS THAN 1 TO PERFORM PROPERLY. IN THESE CASES, THE SHAPE FACTOR SHALL BE PER MANUFACTURER'S RECOMMENDATION.

REFERENCE: TM 5-825-3/AFM 88-6, CHAPTER 3, RIGID PAVEMENTS FOR AIRFIELDS

POURED JOINT SEALANT DETAILS (BACKER MATERIAL)
(FOR RIGID PAVEMENT)

DATE AUG 1988

BACKER MATERIAL



V = VIDTH OF SEALANT RESERVOIR (SEE TABLE) $D = DEPTH OF SEALANT (1.0 TO 1.5 <math>\times$ V)

T = DEPTH OF INITIAL SAVOUT

Q. 1/4 SLAB THICKNESS FOR PAVEHENTS LESS THAN 12 INCHES

b. 3 INCHES FOR PAVEHENTS 12-18 INCHES

C. 1/6 SLAB THICKNESS FOR PAVEMENTS MORE THAN 18 INCHES #

■ DESIGNER MAY VANT TO CONSIDER REQUIRING 1/4 SLAB THICKNESS

TABLE

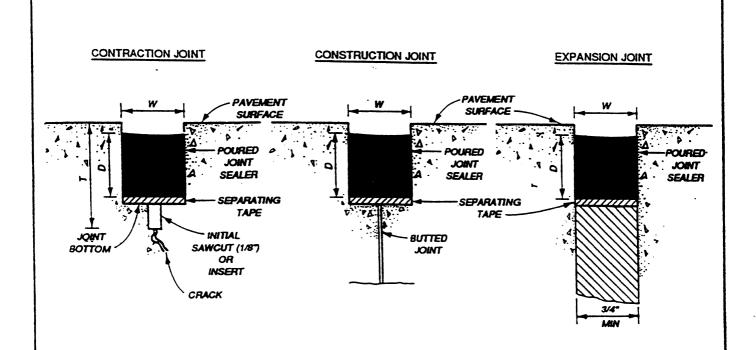
JUINT SPACING FT	VIDTH IN HAX		
< 25	1/2	5/8	
25−50	3/4	7/8	
> 50	1.0	1-1/8	

- NOTES : 1. SEPARATING TAPE OR NONABSORBENT TAPE REQUIRED TO PREVENT JOINT SEALANT FROM FLOVING INTO SAVCUT, TO SEPARATE NONCOMPATABLE MATERIALS AND TO PREVENT JOINT SEALANTS FROM BONDING TO BOTTOM OF RESERVOIR.
 - 2. TOP OF SEALANT VILL BE 1/8-IN TO 1/4-IN BELOW TOP OF PAVEMENT.
 - 3. COMPRESSION SEAL MUST BE IN COMPRESSION AT ALL TIMES.

. REFERENCE : TH 5-825-3/AFH 88-6 CHAPTER 3. RIGID PAVEMENTS FUR AIRFIELDS

JOINT SEALANT DETAILS (BACKER MATERIAL) FOR AIRFIELD PAVEMENT

DATE **AUG 1988** **FIGURE** 2-13a



W - WIDTH OF SEALANT RESERVOIR (SEE TABLE)

- D = DEPTH OF SEALANT (1.0 TO 1.5 X W)
- T = DEPTH OF INITIAL SAWCUT OR INSERT TYPE JOINT FORMER (CONTRACTION JOINT)
 - a. 1/4 SLAB THICKNESS FOR PAVEMENTS LESS THAN 12 INCHES
 - b. 3 INCHES FOR PAVEMENTS 12-18 INCHES*
 - C. 1/6 SLAB THICKNESS FOR PAVEMENTS MORE THAN 18 INCHES

TABLE

JOINT SPACING	WIOTH, IN.		
FT	MIN	MAX	
< 25	1/2	5/8	
25 - 50	3/4	7/8	
>50	1.0	1-1/8	

NOTE: SOME SINGLE COMPONENT COLD APPLIED SEALANTS REQUIRE A SHAPE FACTOR (D/W) OF LESS THAN 1 TO PERFORM PROPERLY. IN THESE CASES, THE SHAPE FACTOR SHALL BE PER MANUFACTURER'S RECOMMENDATION.

REFERENCE: TM 5-825-3/AFM 88-6, CHAPTER 3, RIGID PAVEMENTS FOR AIRFIELDS

POURED JOINT SEALANT DETAILS FOR RIGID PAVEMENTS (SEPARATING TAPE)

DATE AUG 1988

PREFORMED COMPRESSION SEAL

CONTRACTION JOINT EXPANSION JOINT CONSTRUCTION JOINT PAVEMENT PAVEMENT SURFACE SURFACE PREFORMED PREFORMED PREFORMED T COMPRESSION COMPRESSION . A COMPRESSION SEAL SEAL SEAL 9 9 LUBRICATE LUBRICATE LUBRICATE AS AS SPECIFIED SPECIFIED SPECIFIED INITIAL **SAWCUT (1/87)** BUTTED OR JOINT INSERT

DEPTH & WIDTH: AS RECOMMENDED BY MANUFACTURER PER TYPE OF SEAL BEING USED, (DEPTH NOT LESS THAN 1.5 INCHES)

TOP OF PREFORMED SEAL WILL BE 1/8 – 1/4 INCH BELOW PAVEMENT SURFACE

COMPRESSION SEAL MUST BE IN COMPRESSION AT ALL TIMES.

JOINT SPACING	WIDTH-IN.	
FT	MIN.	MAX.
<25	1/2	5/8
25 - 50	3/4	7/8
>50	1.0	1-1/8

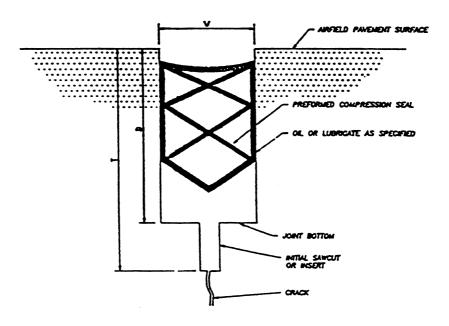
REFERENCE: TM 5-825-3/AFM 88-6, CHAPTER 3, RIGID PAVEMENTS FOR AIRFIELDS

•

JOINT SEALANT DETAILS (PREFORMED COMPESSION SEAL)
FOR RIGID PAVEMENT

DATE JULY 1986

PREFORMED COMPRESSION SEAL



DEPTH & VIDTH + AS RECOMMENDED BY MANUFACTURER PER TYPE OF SEAL BEING USED. (DEPTH NOT LESS THAN 1.5 INCHES)

TOP OF PREFORMED SEAL VILL BE 1/8 - 1/4 INCH BELOV PAVEMENT SURFACE COMPRESSION SEAL MUST BE IN COMPRESSION AT ALL TIMES.

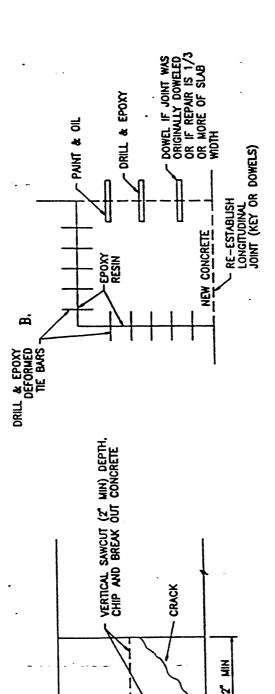
REFERENCE : TM 5-825-3/AFM 88-6, CHAPTER 3, RIGID PAVEMENTS FOR ÁIRFIELDS

JOINT SEALANT DETAILS (PREFORMED COMPRESSION SEAL)

DATE JULY 1988

FULL DEPTH REPAIR

Ċ

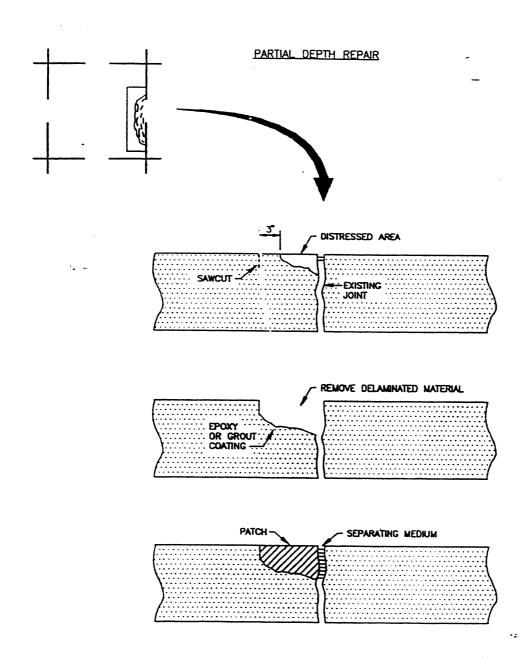


Z NIM

TM5-822-9/AFM 88-6, CHAPTER 10, REPAIR OF RIGIO PAVEMENTS USING EPOXY RESIN GROUTS, MORTARS AND CONCRETE REFERENCE:

TM 5-822-9/AFM 88-6, CHAPTER 3, RIGID PAVEMENTS FOR AIRFIELDS DATED AUGUST 1988 FOR DOWEL AND TE BAR SIZE AND SPACING

ACI 503R—80, "USE OF EPOXY COMPOUNDS WITH CONCRETE" FOR GUIDANCE ON BONDING UNHARDENED CONCRETE TO HARDENED CONCRETE.

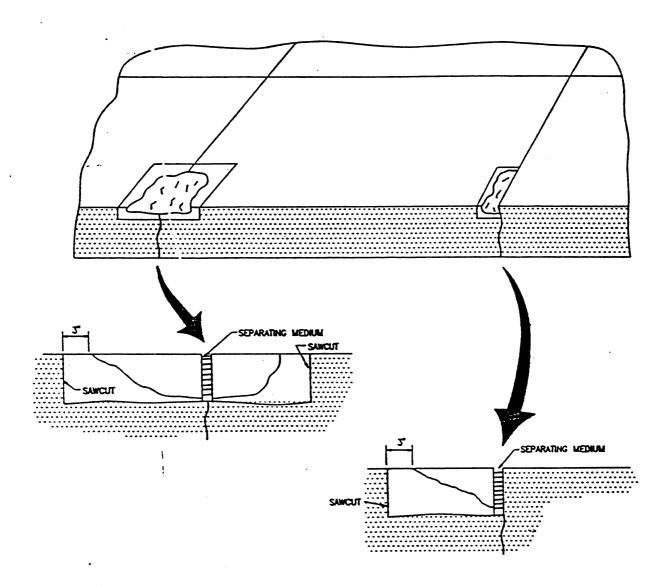


MAKE VERTICAL SAWCUT 2" DEEP APROX. 3" FROM DISTRESSED AREA REMOVE ALL CONCRETE AND LOOSE MATERIAL WITH IN SAWED AREA TO SOUND CONCRETE (3" MIN DEPTH) USE A SEPARATING MEDIUM TO MAINTAIN AND PROTECT JOINT USE A SEPARATING MEDIUM TO MAINTAIN AND PROTECT JOINT USE A BONDING AGENT TO INSURE GOOD CONTACT BETWEEN EXISTING PAVEMENT AND PATCH.
GROUT AND PATCH WITH 2" SLUMP CONCRETE.
AFTER PATCH HAS CURED CLEAN JOINT AND APPLY JOINT SEALANT

REFERENCE: TM5-822-9/AFM 88-6, CHAPTER 10, REPAIR OF RIGID PAVEMENTS USING EPOXY RESIN GROUTS, MORTARS AND CONCRETE

REPAIR OF CONCRETE PAVEMENTS (PARTIAL DEPTH)

SPALL REPAIR



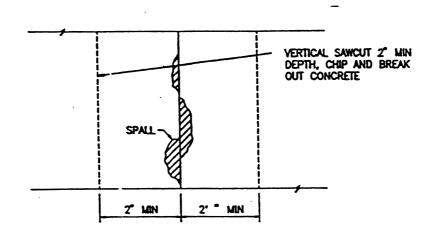
MAKE VERTICAL SAWCUT 2" DEEP APROX. 3" FROM DISTRESSED AREA REJIOVE ALL CONCRETE WITHIN SAWED AREA TO SOUND CONCRETE OR 3" MINIMUM DEPTH TO MAINTAIN AND PROTECT JOINT USE A SEPARATING MEDIUM. GROUT AND PATCH WITH EPOXY CONCRETE, AFTER CURING CLEAN JOINT AND APPLY JOINT SEALANT.

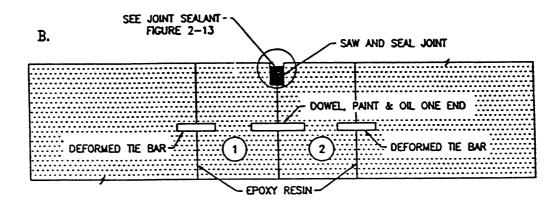
REFERENCE: TM5-822-9/AFM 88-6, CHAPTER 10, REPAIR OF PIGID PAVEMENTS USING EPOXY RESIN GROUTS, MORTARS AND CONCRETE

REPAIR OF CONCRETE PAVEMENTS (SPALL)

FULL DEPTH REPAIR

A.





1 - 2 FORM AND PLACE CONCRETE IN ONE REPAIR SECTION AT A TIME

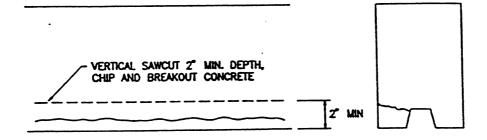
REFERENCE: TM5-822-9/AFM 88-6, CHAPTER 10, REPAIR OF RIGID PAVEMENTS USING EPOXY RESIN GROUTS, MORTARS AND CONCRETE

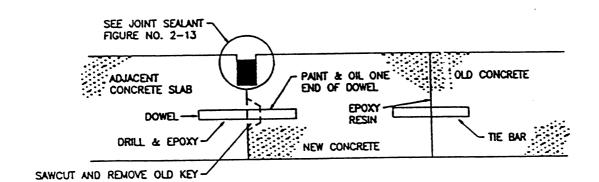
> TM 5-822-9/AFM 88-6, CHAPTER 3, RIGID PAVEMENTS FOR AIRFIELDS DATED AUGUST 1988 FOR DOWEL AND TIE BAR SIZE AND SPACING

ACI 503R-80. USE OF EPOXY COMPOUNDS WITH CONCRETE FOR GUIDANCE ON BONDING UNHARDENED CONCRETE TO HARDENED CONCRETE.

REPAIR OF CONCRETE PAVEMENTS (FULL DEPTH)

FAILED KEY



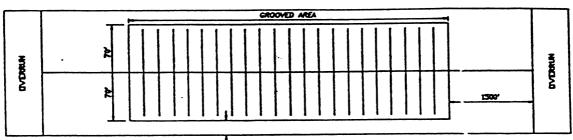


REFERENCE: TM5-822-9/AFM 88-6, CHAPTER 10, REPAIR OF RIGID PAVEMENTS USING EPOXY RESIN GROUTS, MORTARS AND CONCRETE

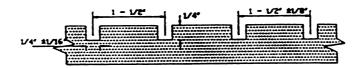
> TM 5-822-9/AFM 88-6, CHAPTER 3, RIGID PAVEMENTS FOR AIRFIELDS DATED AUGUST 1988 FOR DOWEL AND TIE BAR SIZE AND SPACING

ACI 503R-80, "USE OF EPOXY COMPOUNDS WITH CONCRETE" FOR GUIDANCE ON BONDING UNHARDENED CONCRETE TO HARDENED CONCRETE.

REPAIR OF CONCRETE PAVEMENTS (FAILED KEY)

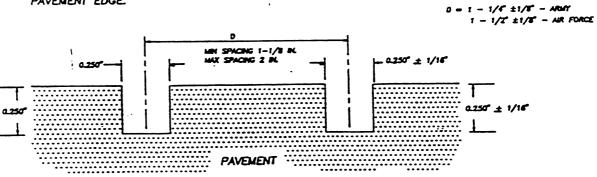


MACHINE TURN AROUND



GROOVING DETAIL - PCC

NOTES: GROOVING SHOULD NOT BE ACCOMPLISHED: WITHIN 6 INCHES OF TRANSVERSE JOINTS OR TRANSVERSE WORKING CRACKS: THROUGH NEOPRENE COMPRESSION SEALS (FOR LONGITUDINAL JOINTS, THE TIP OF THE SEAL SHOULD BE 1/8 "BELOW THE BOTTOM OF THE GROOVE): THE FIRST 1500 FEET FROM THE THRESHOLDS: THE FIRST 300 FEET EITHER SIDE OF AN ARREST BARRIER CABLE WHICH REQUIRES HOOK ENGAGEMENT FOR OPERATION: THROUGH IN-RUNNING LIGHTING FIXTURES OR SIMILAR ITEMS. GROOVES SHOULD TERMINATE 5' FROM PAVEMENT EDGE.

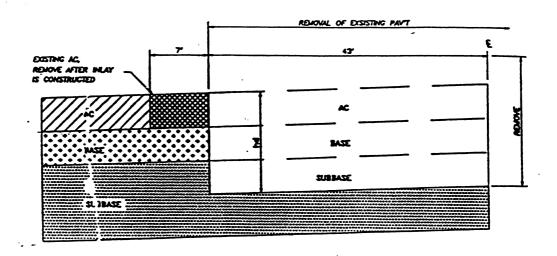


GROOVING DETAIL - AC

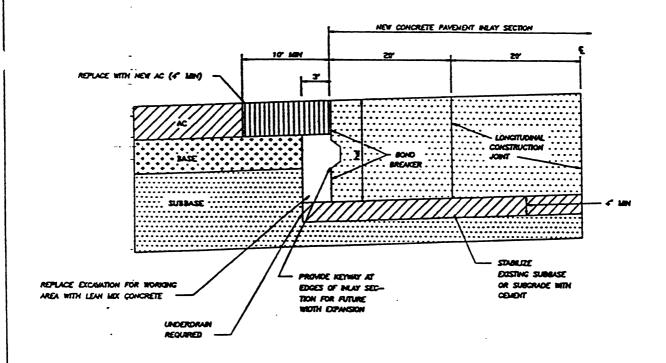
REFERENCE: TM 5-824-1/AFM 88-6, CHAPTER 1, GENERAL PROVISIONS FOR AIRFIELD PAVEMENT DESIGN.
TH 5-825.2, FLEXIBLE PAVEMENT DESIGN

GROOVING DETAILS FOR RUNWAY PAVEMENTS

PATE JUNE 1987



A. TRANSVERSE SECTION SHOWING REMOVAL

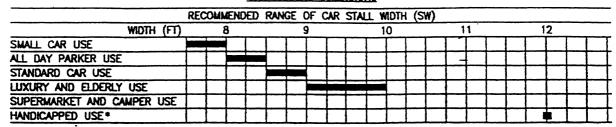


B. TRANSVERSE SECTION SHOWING CONSTRUCTION

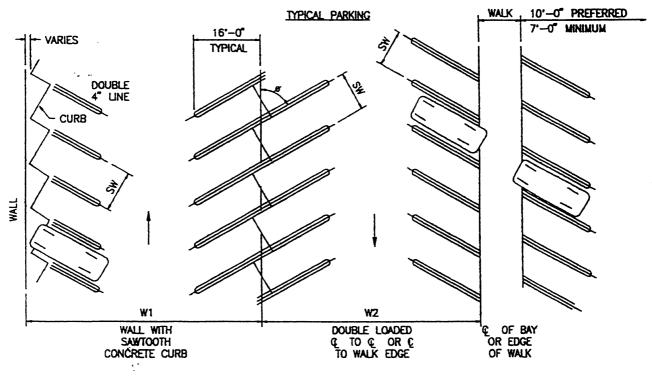
REFERENCE: TH 5-825-3/AFM 88-6, CHAPTER 3, RIGID PAVEMENTS FOR AIRFIELDS

TYPICAL CONCRETE PAVEMENT INLAY IN EXISTING FLEXIBLE PAVEMENT	-	DATE AUG 1988	
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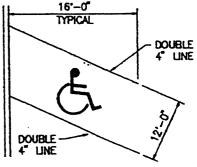
CAR PARKING DIMENSIONS



^{*}MINIMUM REQUIREMENTS = 2 PER 100 STALLS AS SPECIFIED BY FEDERAL LAW; PLACE CONVENIENT TO DESTINATION



DRIVEWAY WIDTHS					
SW	w	45	60°	90	VEHICLE TYPE
8'-0"	1	38'-9"	44'-2"	57'-2"	SMALL CARS
8 -0	2	36'-8"	42'-9"	57'-2"	SWALL CARS
8'-6"	1	47'-8"	54'-0°	66'-0"	STANDARD
0-0	2.	45'-2"	51'-8"	66'-O"	CARS
9'-0"	1	46'-4"	53'-10"	66'-0"	STANDARD
3 -0	2	44'-8"	51'-6"	66'-0'	CARS
9'-0"	1	47'-9°	53'-8"	66'-0"	- LARGE CARS
13-0	2	45'-5 "	51'-8"	66'-0"	DANGE CANS
9'-6" & 10'-0"	1	47' <i>-7</i> "	52'-4"	660	LARGE CARS
	2, .	45'-3	50°-8"	66'-0"	CAIGE CAIG



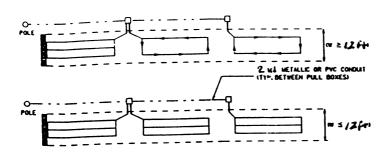
HANDICAPPED PARKING
TYPICAL

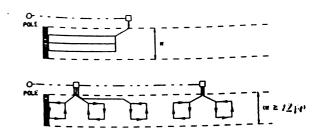
REFERENCE: DOD 4270.1-M CONSTRUCTION CRITERIA; AIA STANDARDS.

TYPICAL HANDICAPPED CAR PARKING LAYOUT

DATE DEC 1988

PRESENCE DETECTION CONFIGURATION DETAILS





MOTES

- L MANTAM JR 44 SPACING BETWEEN LEAD-IN CABLES IN PAYEMENT.

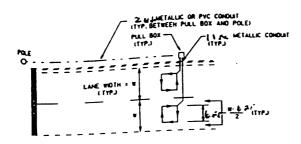
 2. USE / Ma, METALLIC CONDUIT AT ALL PAYEMENT EDGES FOR LOOP WIRES LEAVING THE ROADWAY WEETER IN FROME 3 FOR SECTION DETALS.

 3. ALL LOOPS WEED TO THE SAME DETECTOR SHALL BE WIRED IN SERVES.

 4. ALTERNATE POLIMITY OF ADJACENT LOOPS ATTACHED TO THE SAME DETECTOR UNIT SO THAT ELECTRICAL CURRENT PLOYS IN THE DIRECTION SHOWN ON LOOPS.

 5. BISTALL CONDUIT BUSHINGS ON METALLIC CONDUITS.

PULSE DETECTION CONFIGURATION DETAILS



GENERAL NOTES

- LALL DIMENSIONS ARE IN INJURIES CIMENT UNLESS OTHERWISE NOTED.

 2. MANBER OF TURNS OF WIRE IN EACH LOOP SHALL BE THE MANBER INDICATED ON THE SIGNAL PLANS.

 3. LOOP DIMENSIONS AND LOCATIONS SHALL BE AS SHOWN ON SIGNAL PLANS.

 4. LOOPS SHALL BE LCCATED IN CENTER OF LAMES URLESS OTHERWISE SHOWN ON PLANS.

- FIGURE 2 -

LOOP WINDING AND SAW CUT DETAILS

MOTES

- LOPTION 2 IS THE PREFERRED SAW CUT METHOD FOR POOR PAVEMENT. PAVEMENT CONSTICN TO BE DETERMINED BY ENGINEER.

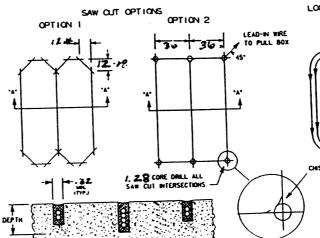
 2. OVERLAP SAW CUTS AT CORNERS AND INTERSECTION POINTS TO ENSURE UNIFORM SAW SLOT DEPTIL

 3. TAG AND LABEL LOOP WIRE LEADS TO FACILITATE THE SPLICING OF SERIES AND ALTERNATE POLARITY CONNECTIONS.
- AND ALTERNATE POLARITY CONNECTIONS. AND ALTERNATE PICTURE CONNECTIONS
 4. TWIST LOOP WIRE LEADS SYMMETRICALLY GOM
 THE PAYEMENT EDGE TO THE PILL BOX AT A
 RATE OF NOT LESS THAN IS TWISTS FER PIZTER.

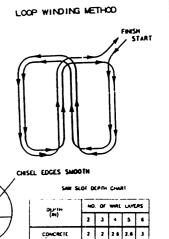
LOOP WIRE TWISTING METHOD

INCORRECT WAY TO TWIST WIRE





QUADRUPOLE LOOP



Reference: NCDOT

Traffic Signal Specifications

SECTION "A"-"A"

- FIGURE 1

LOOP WIRE PAVEMENT EDGE DETAILS

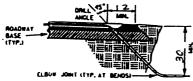
LOOP WIRE AT 30.4 M OURB & GUTTER SECTION 300 MAT FALED

MOTES

- L USE 1 101, METALLIC CONDUIT AT ALL PAVEMENT EDGES FOR LOOP WIRES LEAVING THE ROADWAY. 2. EXCAVATION UNDER CLIRB AND GUTTER SECTIONS
- Z-EXCAVATION LOBER CLIMB AND GUITTER SECTIONS FOR COROLLE DESTALLATION IS NOT ALLOWED. 3-FOR LOOP WIRE AT \$0.4 CLIMB & GUITTER SECTION PISTALL 20 mm X 300 mm PVC SLEEVE AND BECON TRISTING LEADS AS SMORE.
- ACCORDANCE WITH SECTION IT.A.2.13.
 - 6. PROR TO SEALING LOOPS, PLUG COMOUT TO PROVIDE A WATER PROOF BARNER AND PREVENT LOOP SEALANT FROM ENTERING CONDUIT WIERE LOOP WEE LEAVES PAVEMENT SURFACE.

LOOP WIRE AT PAVENENT SECTION

PAVEMENT SURFACE (TYPJ)

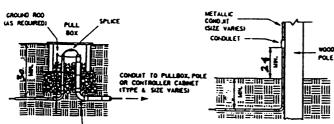




LOOP WIRE SPLICE POINT DETAILS

LOOP WIRE AT PULL BOX

LOOP WIRE AT POLE



ELBOW JOINT (TYP, AT BENOS)

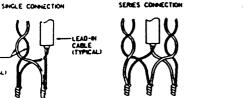
NOTES

- L ALL LOOP WIRES/HOME RUN CABLE SPLICES SHALL BE MALE IN PULL BOXES OR APPROVED CONDULETS.
- 2. PLL BOXES SHOULD BE LOCATED A MINIMUM OF SIZE BEING BACK OF CURBLEOR PAVEMENT SECTIONS, A MINIMUM OF SIZE FROM THE PAVEMENT EDGE, OR WITHIN THE R/W.

- FIGURE 5 -

LOOP WIRE AND LEAD-IN CABLE CONNECTION DETAILS

LEAD-IN CABLE (TYPICAL)





Peference: NCDOT

raffic Signal Specifications

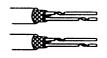
FIGURE 6

SPLICING FOR LEAD-IN CABLE AND LOOP WIRE





STEP I. STRIP LOOP WIRE AND LEAD- IN CABLE



TWIST BARE CONDUCTORS TOGETHER AND SOLDER WITH RESIN CORE SOLDER



CRMP BARE CONDUCTORS TOGETHER WITH AN UNIONSULATED BUTT CONNECTOR AND SOLDER MTH RESIN CORE SOLDER

BOND SHELD DRAIN WIRE AT SPLICE SECTIONS 400 NOT GROUND!

- OR -

STEP 2. CONNECT AND SOLDER (REFER TO FIG. 5)

ELECTRICAL TAPE

SHRINK TUBE



OR



WIRE CAP (FOR USE ONLY WITH SPLICE KIT)



STEP 3. INSULATE EACH SOLDER JOINT SEPARATELY



MOISTURE PROOF SEALANT OR SILICONE IMPRECIATED SHRINK TUBE

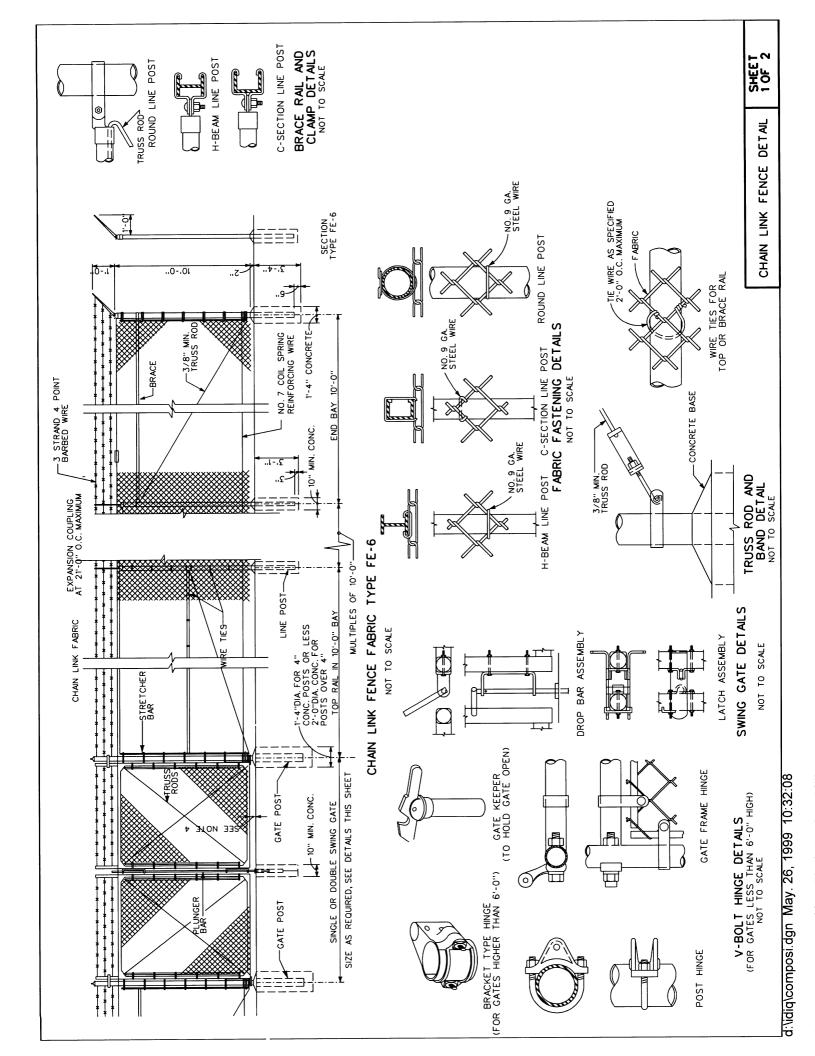
ΛR

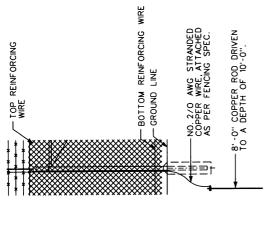
SMALL PAPER CUP OR OTHER SUITABLE CONTAINER

TOTALLY ENCAPSULATE SPLICE IN FLEXIBLE EMBEDDED SEALANT TO FORM A WATER-TICHT SPLICE ALLOW SEALANT TO SET.

STEP 4. ENVIRONMENTALLY PROTECT TOTAL SPLICE WITH MOISTURE PROOF SEALANT SPLICE KIT. OR SILICONE IMPREGNATED SHRINK TUBE

AND





NOTE: GROUND ROD TO BE INSTALLED AT SPECIFIED INTERVALS, AS PER SPECIFICATIONS.

STRETCHER BAR TO ENGAGE EACH FABRIC LINK

0

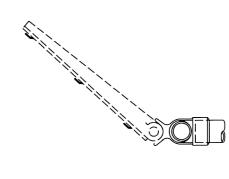
CARRIAGE BOLT

FENCE GROUNDING DETAIL NOT TO SCALE

STRETCHER BAR BAND TO BE 4" MAXIMUM FROM TOP AND BOTTOM. SPACE 1'-3" O.C. MAXIMUM

- FABRIC

END OR GATE POST



BARBED WIRE OR COIL SPRING WIRE

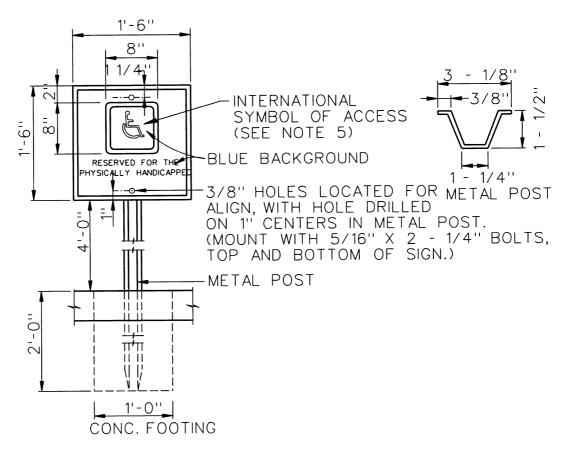
TOP RAIL BARBED WIRE SUPPORT ARM NOT TO SCALE

STRETCHING DETAILS NOT TO SCALE

STRETCH BAND

GENERAL NOTES:

- 1. THIS STANDARD DRAWING CORRESPONDS TO THE REQUIREMENTS OF SAVANNAH DISTRICT GUIDE SPECIFICATIONS SECTION 02831.
- 2. DETAILS ARE TO CLARIFY REQUIREMENTS BUT ARE NOT INTENDED TO LIMIT OTHER FENCE SECTIONS AND METHODS OF INSTALLATIONS SPECIFIED.
- 3. BARBED WIRE SUPPORTING ARMS ARE TO POINT OUTWARD, UNLESS OTHERWISE NOTED.
- 4. GATES SHALL BE HINGED TO FREELY SWING 180° WITH A MAXIMUM CLEARANCE OF 2" WHEN CLOSED.

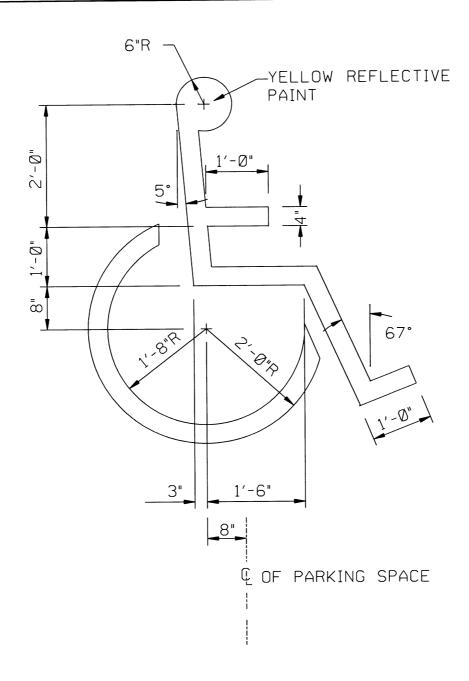


NOTES:

- 1. METAL POST TO BE GALVANIZED. ALL BOLTS, NUTS, WASHERS, AND SCREWS MUST BE RUSTPROOF.
- 2.CONCRETE FOR FOOTING SHALL BE OF PORTLAND CEMENT AND HAVE A MIN. COMPRESSIVE STRENGTH OF 3000 P.S.I.
- 3. SIGNS WILL BE FABRICATED BY USING A REFLECTING COATING IN THE SYMBOL, MESSAGEAND BORDERS APPLIED TO A SHEET ALUMIN. BACKING (.080") IN THICKNESS
- 4.MESSAGE LETTERING SHALL BE UPPER CASE (WHITE SERIES B) 2" HIGH IN ACCORDANCE WITH MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 5.THE SYMBOL IS COMPOSED OF TWO ELEMENTS, A WHITE WHEELCHAIR FIGURE (WHICH SHOULD ALWAYS FACE RIGHT) ON A SQUARE BACKGROUND, NTERNATIONAL BLUE IN COLOR (FED. STD. 595A, COLOR #15180).
- 6.SIGN POST SHALL HAVE MIN, 2.0' CLEARANCE FROM BACK OF CURB.

SIGN FOR THE PHYSICALLY HANDICAPPED

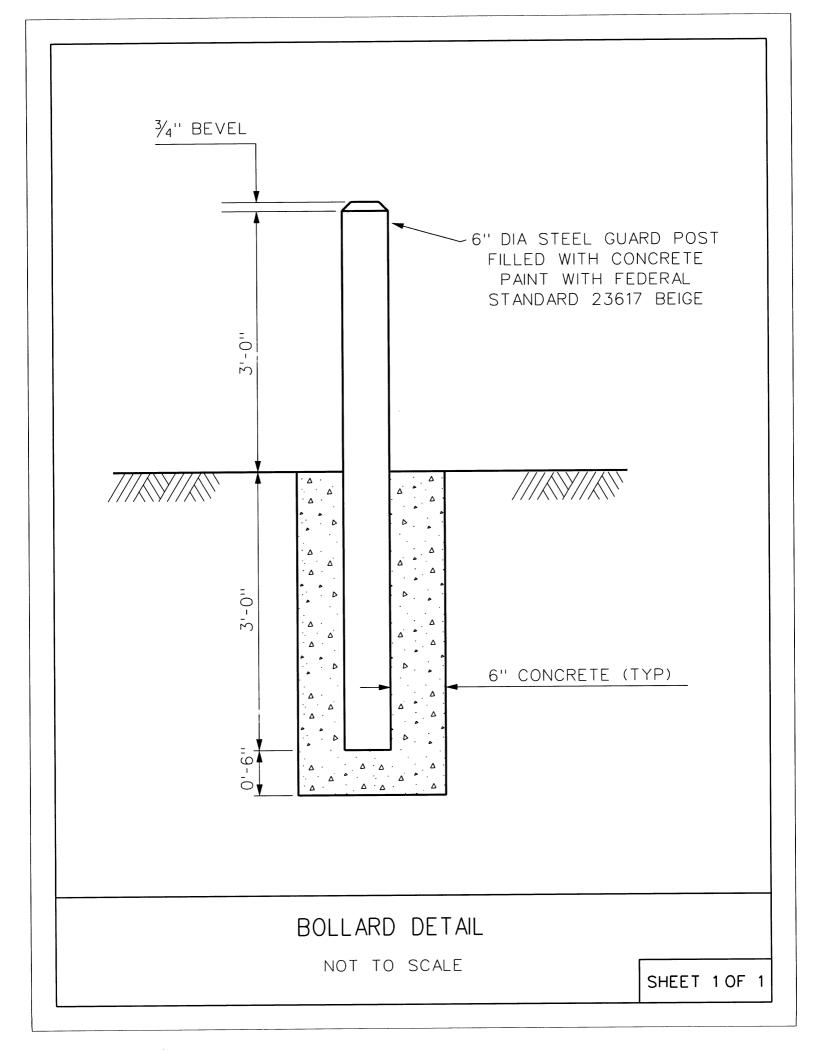
NOT TO SCALE

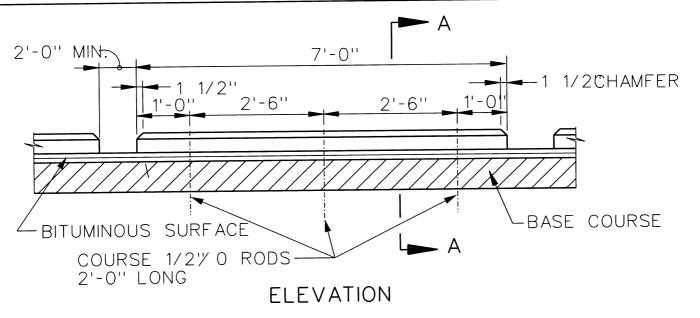


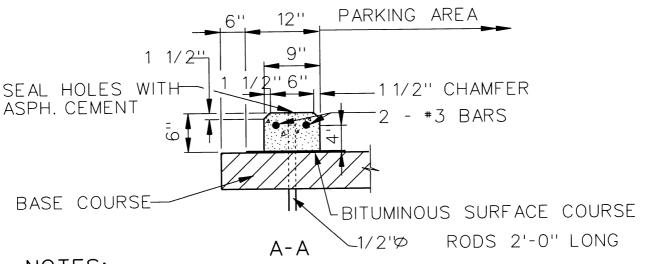
** USE 5' WIDE LOADING ZONE FOR ALL HANDI-CAP PARKING SPACES UNLESS NOTED AS "VAN ACCESSIBLE". USE 8' WIDE FOR "VAN ACCESSIBLE" SPACES.

INTERNATIONAL HANDICAP SYMBOL

NOT TO SCALE





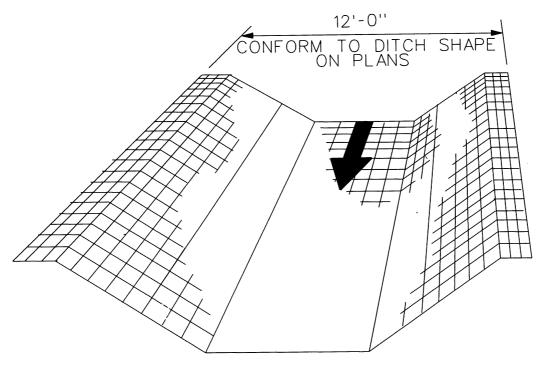


NOTES:

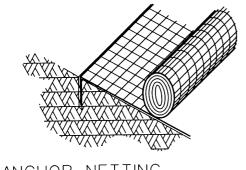
- 1. ANCHOR RODS THRU CONCRETE CURBS TO BE SLEEVED ROR GREASED TO PERMIT RELOCATION OF WHEEL STOPS.
- 2. CONCRETE SHALL HAVE A MIN. COMPRESSIVE STRENGTH OF 3,000 P.S.I., IN ACCORDANCE WITH ASTM C-94.
- 3. STEEL BARS SHALL CONFORM TO EITHER ASTM A 615, 616 OR 617, GRADE OPTIONAL.
- 4. PRECAST WHEEL STOP DIFFERING ONLY IN NON-ESSENTIAL DETAILS WILL BE ACCEPTED.

CONCRETE WHEEL STOP DETAIL

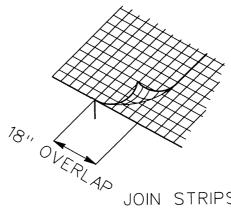
NOT TO SCALE



IN CHANNELS ROLL OUT STRIPS OF NETTING PARALLEL TO THE DIRECTION OF FLOW AND OVER THE PROTECTIVE MULCH.*



ANCHOR NETTING IN A 6" TRENCH.



JOIN STRIPS BY ANCHORING AND OVERLAPPING.

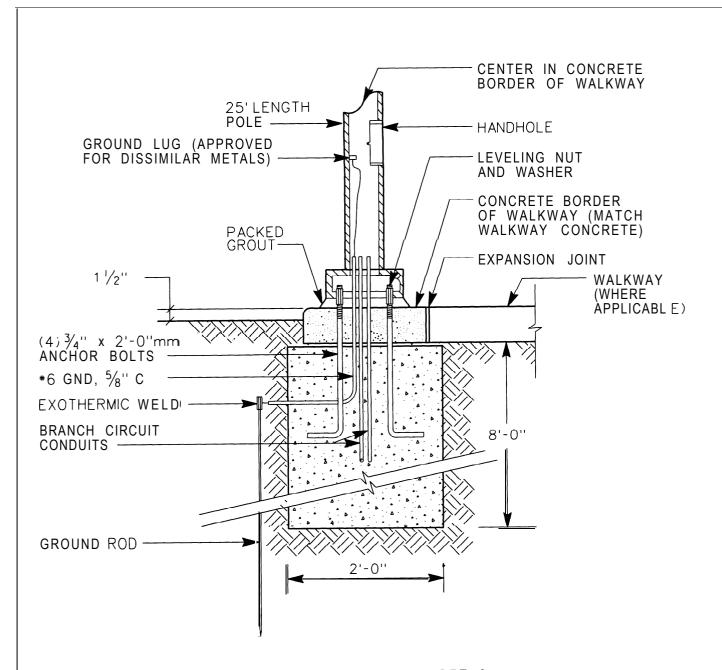
* OMIT MULCH FOR JUTE MATTING.

INSTALLATION OF NETTING AND MATTING

NOT TO SCALE

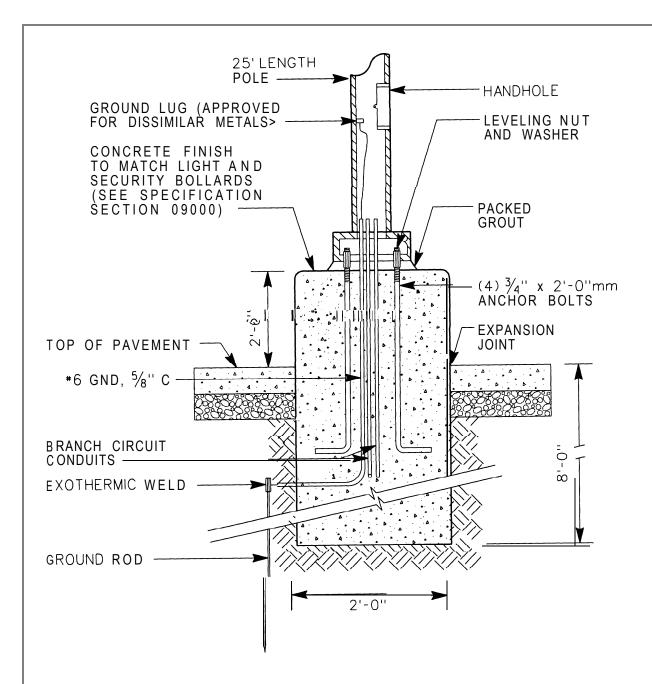
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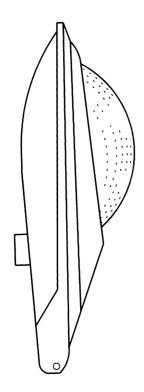
TYPE B1 POLE AND BASE DETAIL

THE POLE SHALL BE CONSTRUCTED OF SEAMLESS SQUARE EXTRUDED ALUMINUM TUBE WELDED TO A CAST ALUMINUM BASE. A FLUSH CAST ALUMINUM POLE CAP SHALL BE PROVIDED. THE BASE SHALL HAVE A CAST ALUMINUM ANCHOR BOLT COVER SECURED TO THE BASE BY STAINLESS STEEL SCREWS THAT HAVE TO BE DRILLED TO BE REMOVED. THE HANDHOLE SHALL BE APPROXIMATELY 450mm ABOVE THE BASE AND SHALL INCLUDE A GASKETED COVER AND GROUND LUG. POLES AND FOUNDATIONS SHALL WITHSTAND STEADY WINDS OF 54 METERS PER SECOND (120 MILES PER HOUR) WHEN FIXTURES ARE MOUNTED TO POLE. PROVIDE A DRAINAGE CHANNEL THROUGH GROUT AT POLE BASE. ANCHOR BOLTS SHALL BE PRE-FABRICATED AND FURNISHED BY THE POLE MANUFACTURER. THE BASE SHALL BE REINFORCED WITH 4*8 VERTICAL REBAR AND WITH *3 HORIZONTAL REBAR 300mm ON CENTERS, 375mm LAP. ANCHOR BOLTS SHALL BE COORDINATED WITH AND TIED TO THE REINFORCING STEEL STRUCTURE OF THE BASE.



TYPE B2 POLE AND BASE DETAIL

THE POLE SHALL BE CONSTRUCTED OF SEAMLESS SQUARE EXTRUDED ALUMINUM TUBE WELDED TO A CAST ALUMINUM BASE. A FLUSH CAST ALUMINUM POLE CAP SHALL BE PROVIDED. THE BASE SHALL HAVE A CAST ALUMINUM ANCHOR BOLT COVER SECURED TO THE BASE BY STAINLESS STEEL SCREWS THAT HAVE TO BE DRILLED TO BE REMOVED. THE HANDHOLE SHALL BE APPROXIMATELY 450mm ABOVE THE BASE AND SHALL INCLUDE A GASKETED COVER AND GROUND LUG. POLES AND FOUNDATIONS SHALL WITHSTAND STEADY WINDS OF 54 METERS PER SECOND (120 MILES PER HOUR) WHEN FIXTURES ARE MOUNTED TO POLE. PROVIDE A DRAINAGE CHANNEL THROUGH GROUT AT POLE BASE. ANCHOR BOLTS SHALL BE PRE-FABRICATED AND FURNISHED BY THE POLE MANUFACTURER. THE BASE SHALL BE REINFORCED WITH 4*8 VERTICAL REBAR AND WITH *3 HORIZONTAL REBAR 300mm ON CENTERS, 375mm LAP. ANCHOR BOLTS SHALL BE COORDINATED WITH AND TIED TO THE REINFORCING STEEL STRUCTURE OF THE BASE.



COBRAHEAD ROADWAY LIGHT TYPE HIGH PRESSURE SODIUM 400 WATT

HUUSING:

AND LOWER HOUSING AND SHALL HAVE AN ELECTROCOAT GRAY PAINT FINISH. THE LOWER AND LOWER HOUSING AND SHALL HAVE AN ELECTROCOAT GRAY PAINT FINISH. THE LOWER HOUSING SHALL BE HINGED AND SEPARABLE AND SHALL HOLD THE REFRACTOR IN PLACE. A BOLT-ON SLIPFITTER SHALLSECURELY FASTEN THE FIXTURE TO A 30mm TO 50mm PIPE BRACKET AND SHALL ALLOW +/-5% ADJUSTMENT FROM THE HORIZONTAL. THE FIXTURE SHALL INCLUDE A FACTORY INSTALLED POLYMER BIRD GUARD AND AN EXTERNAL QUICK RELEASE STAINLESS STEEL BAIL LATCH REQUIRING NO TOOLS AND OPERABLE WITH A

AND N E N ÄSSEMBLY:

A CHEMICALLY BONDED LIGHTWEIGHT NON-BREAKABLE GLASS FINISH ON BOTH THE A CHEMICALLY BONDED LIGHTWEIGHT NON-BREAKABLE GLASS FINISH ON BOTH THE INSIDE AND OUTSIDE SURFACES. ELASTOMER GASKETING SHALL BE PROVIDED BETWEE THE REFLECTOR AND A HEAT AND IMPACT RESISTANT GLASS PRISMATIC REFRACTOR. CHARCOAL FILTERING SHALL ALSO BE PROVIDED.

LISTED ELECTRICAL: THE FIXTURE SHALL BE COMPLETELY PREWIRED AND SHALL INCLUDE, HIGH POWER FACTOR (0.90 MINIMUM) BALLAST WITH A PUBLISHED BALLAST FACTOR OF UNITY. FIXTURE SHALL INCLUDE A PREWIRED NO-TOOL PHOTOELECTRIC CONTROL RECEPTACLE WITH A FAIL-ON PHOTOELECTRIC CELL. THE FIXTURE SHALL BE UL LISTEIFOR WET LOCATIONS.